

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: P701401 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320L-40-80-5S-HEG-S**

Issue Date: 8/15/2023

Test Information

Test Method: LM-79-08
Report Number: P701401 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320L-40-80-5S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 5S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

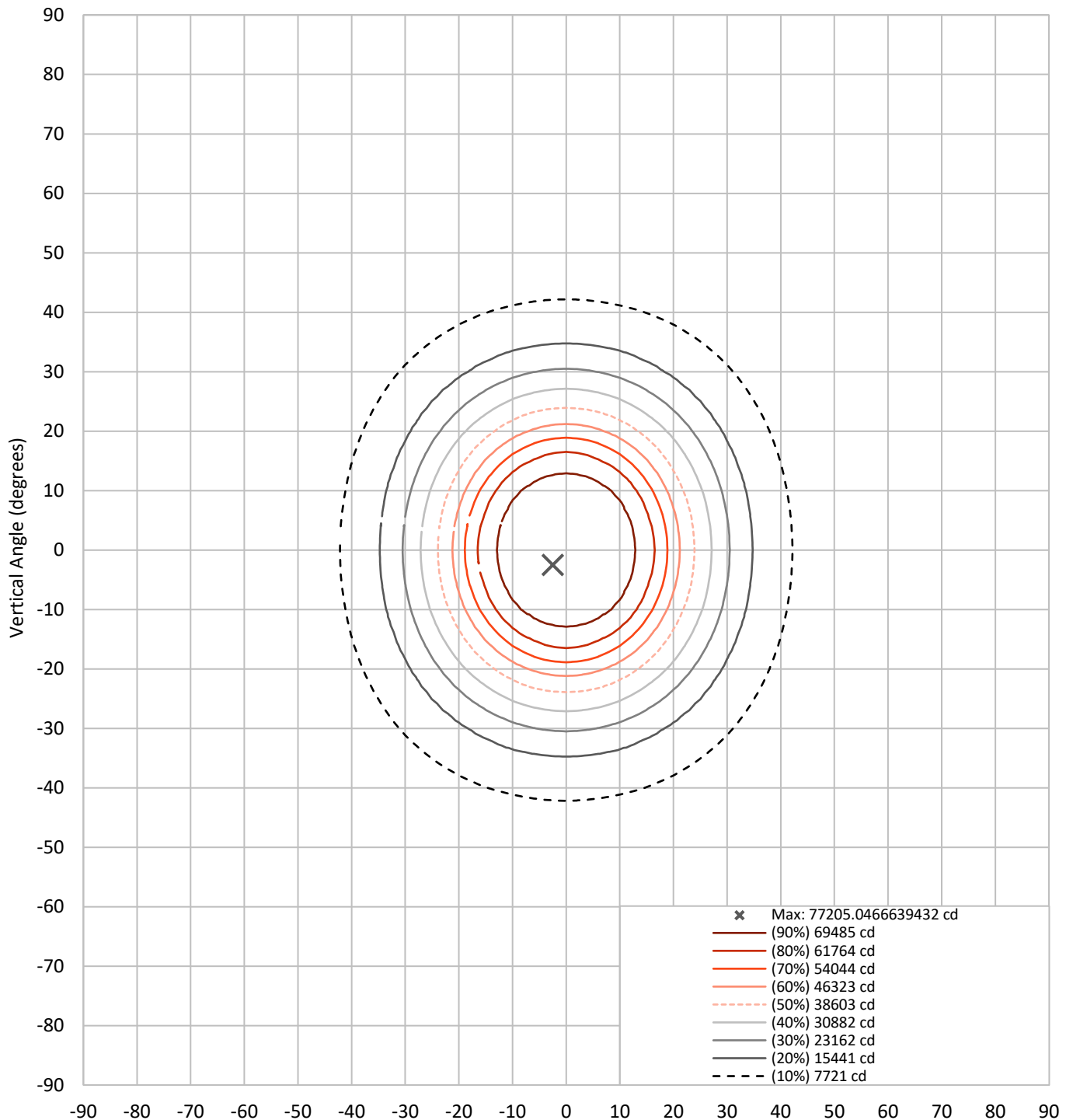
Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	56432.2 lumens	Max Intensity:	77205 candela
Efficiency:	N/A	Max Intensity Angle:	-2.5°H x -2.5°V
Efficacy:	164.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	47.6°H x 47.6°V	Field Angle (10%):	84.3°H x 84.3°V
Beam Lumens:	31658.4 lumens	Field Lumens:	52580.8 lumens
Beam Efficiency:	56.1%	Field Efficiency:	93.2%

Input Watts (W): 344.2
Input Voltage (V): NR
Input Current (A_{in}): 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





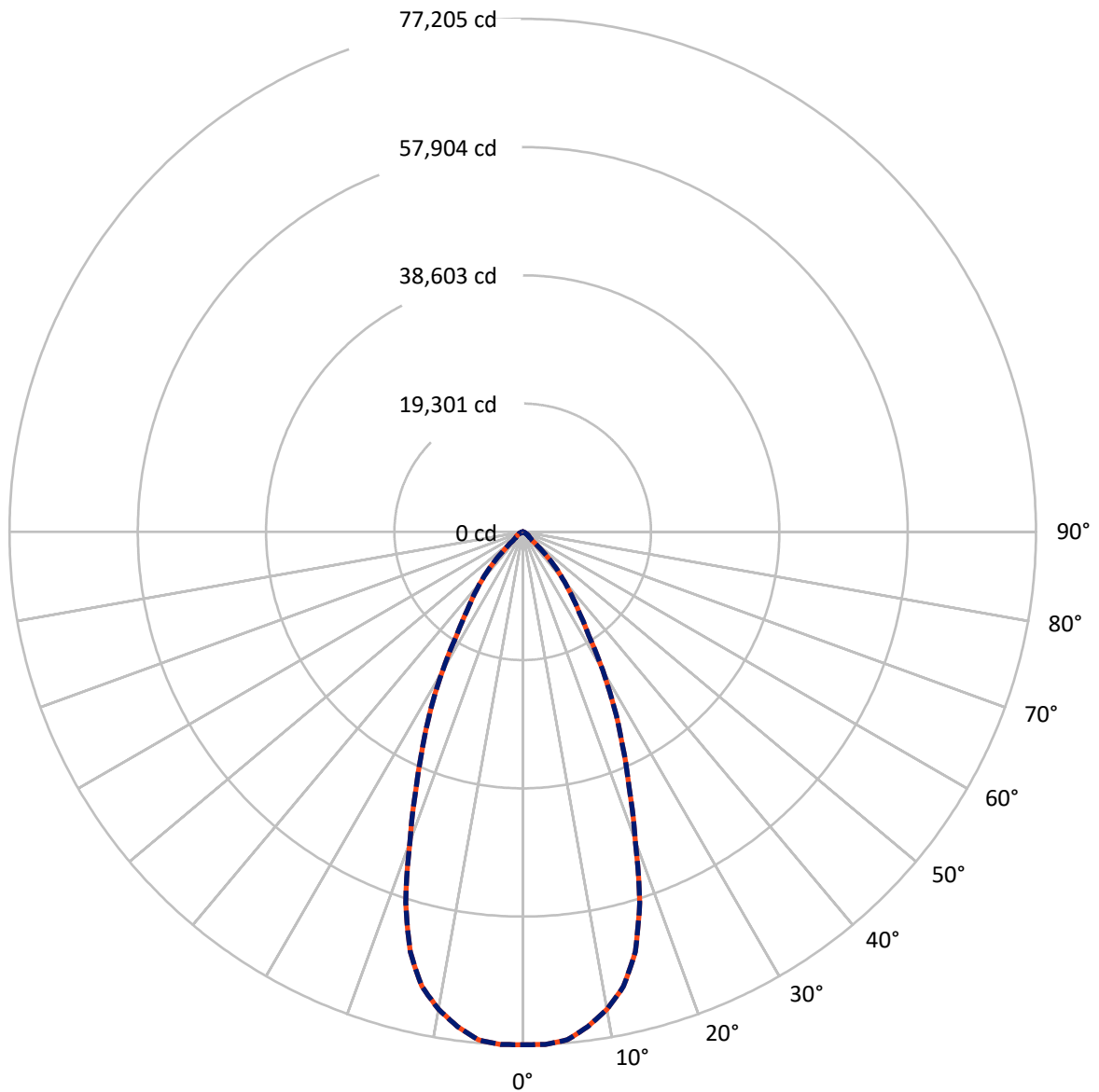
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Lumen Table

90																
80	0.1	0.5		1.8		3.8		4.8		3.8		1.8		0.5		0.1
70																
60	0.2	0.3	0.9	2.4	5.0	8.1	11.0	12.7	12.7	11.0	8.1	5.0	2.4	0.9	0.3	0.2
50		0.7	2.9	7.8	15.2	23.2	29.2	32.4	32.4	29.2	23.2	15.2	7.8	2.9	0.7	
40	0.6	1.5	6.4	16.1	27.9	50.2	102.3	144.0	144.0	102.3	50.2	27.9	16.1	6.4	1.5	0.6
30		2.7	10.8	24.1	70.1	212.0	358.0	458.6	458.6	358.0	212.0	70.1	24.1	10.8	2.7	
20	1.1	3.9	14.9	39.7	192.6	438.3	784.4	1052.7	1052.7	784.4	438.3	192.6	39.7	14.9	3.9	1.1
10		5.0	17.5	76.7	305.5	738.2	1371.7	1868.8	1868.8	1371.7	738.2	305.5	76.7	17.5	5.0	
0	1.3	5.6	18.9	104.8	380.2	961.8	1814.4	2264.8	2264.8	1814.4	961.8	380.2	104.8	18.9	5.6	1.3
-10		5.6	18.9	104.8	380.2	961.8	1814.4	2264.8	2264.8	1814.4	961.8	380.2	104.8	18.9	5.6	
-20	1.1	5.0	17.5	76.7	305.5	738.2	1371.7	1868.8	1868.8	1371.7	738.2	305.5	76.7	17.5	5.0	1.1
-30		3.9	14.9	39.7	192.6	438.3	784.4	1052.7	1052.7	784.4	438.3	192.6	39.7	14.9	3.9	
-40	0.6	2.7	10.8	24.1	70.1	212.0	358.0	458.6	458.6	358.0	212.0	70.1	24.1	10.8	2.7	0.6
-50		1.5	6.4	16.1	27.9	50.2	102.3	144.0	144.0	102.3	50.2	27.9	16.1	6.4	1.5	
-60	0.2	0.7	2.9	7.8	15.2	23.2	29.2	32.4	32.4	29.2	23.2	15.2	7.8	2.9	0.7	0.2
-70		0.3	0.9	2.4	5.0	8.1	11.0	12.7	12.7	11.0	8.1	5.0	2.4	0.9	0.3	
-80																
-90	0.1	0.5		1.8		3.8		4.8		3.8		1.8		0.5		0.1

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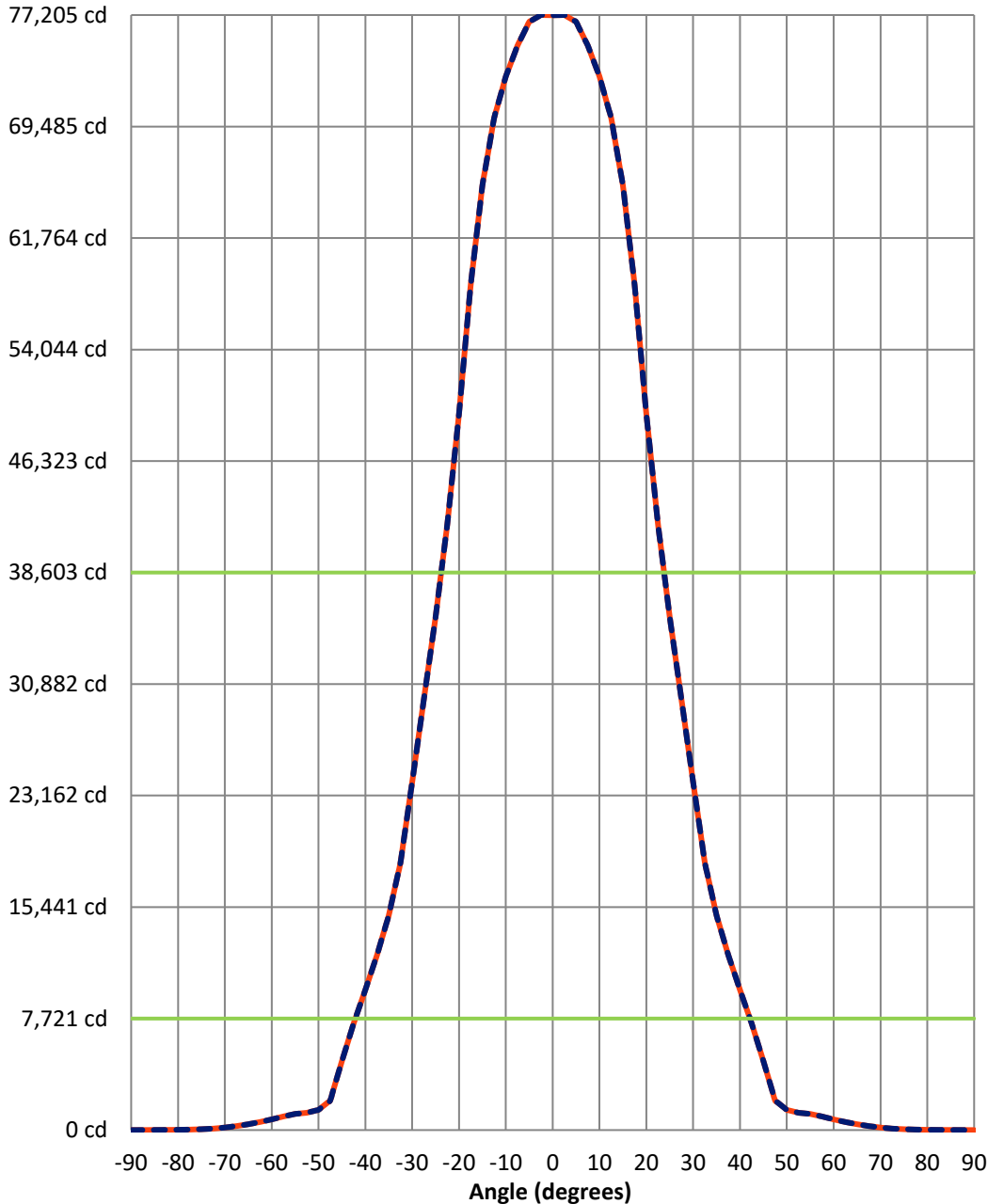
Luminous Intensity Polar Plot



— Vertical Distribution Through -2.5-Deg - - - Horizontal Distribution Through -2.5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 47.6°
 V Angle: 47.6°
 Lumens: 31658.4
 Efficiency: 56.1%

Field:
 H Angle: 84.3°
 V Angle: 84.3°
 Lumens: 52580.8
 Efficiency: 93.2%

Spill:
 Lumens: 3851.3
 Efficiency: 6.8%

- Vertical Distribution through -2.5-Deg
- - - Horizontal Distribution through -2.5-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	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6
85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.3	4.7
80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.4	5.1	5.7	6.3
77.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.1	8.0
75°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.7	7.6	8.8	9.9
72.5°	0.0	1.1	2.2	3.3	4.4	5.6	6.7	7.9	9.2	10.5	11.8
70°	0.0	1.3	2.5	3.8	5.1	6.4	7.6	9.2	10.7	12.3	14.3
67.5°	0.0	1.4	2.8	4.3	5.7	7.1	8.8	10.5	12.3	14.6	16.9
65°	0.0	1.6	3.1	4.7	6.3	8.0	9.9	11.8	14.3	16.9	20.4
62.5°	0.0	1.7	3.4	5.2	6.9	8.9	11.0	13.5	16.3	19.8	26.2
60°	0.0	1.8	3.7	5.6	7.5	9.8	12.1	15.2	18.3	24.9	31.9
57.5°	0.0	2.0	4.0	6.0	8.2	10.7	13.5	16.9	22.2	29.9	40.5
55°	0.0	2.1	4.3	6.4	8.8	11.5	14.9	18.5	26.6	35.7	50.3
52.5°	0.0	2.3	4.5	6.8	9.5	12.4	16.3	22.0	30.8	44.3	59.9
50°	0.0	2.4	4.8	7.2	10.1	13.5	17.6	25.6	35.9	52.6	72.9
47.5°	0.0	2.5	5.0	7.6	10.8	14.6	19.1	29.0	43.1	60.7	86.0
45°	0.0	2.6	5.3	8.1	11.4	15.6	22.0	32.4	50.0	71.9	98.5
42.5°	0.0	2.7	5.5	8.5	11.9	16.6	24.7	37.1	56.6	82.8	119.9
40°	0.0	2.8	5.7	8.9	12.6	17.5	27.3	42.6	63.9	93.2	141.9
37.5°	0.0	2.9	5.9	9.3	13.3	18.4	29.8	47.9	72.6	105.5	162.9
35°	0.0	3.0	6.1	9.6	14.0	20.0	32.1	52.8	80.9	123.3	185.6
32.5°	0.0	3.1	6.3	10.0	14.6	21.8	34.9	57.5	88.7	140.1	211.2
30°	0.0	3.2	6.5	10.3	15.2	23.5	38.6	62.4	96.0	155.9	235.2
27.5°	0.0	3.3	6.6	10.6	15.7	25.1	42.1	68.3	105.1	170.5	257.5
25°	0.0	3.4	6.8	10.9	16.2	26.6	45.3	73.7	117.0	187.2	278.4
22.5°	0.0	3.4	6.9	11.1	16.7	27.9	48.2	78.7	127.9	204.0	301.9
20°	0.0	3.5	7.0	11.3	17.1	29.1	50.8	83.2	137.7	219.1	323.1
17.5°	0.0	3.5	7.1	11.5	17.5	30.2	53.2	87.2	146.4	232.6	342.0
15°	0.0	3.6	7.2	11.7	17.8	31.1	55.2	90.6	154.0	244.4	358.5
12.5°	0.0	3.6	7.3	11.9	18.1	31.9	56.9	93.6	160.4	254.4	372.6
10°	0.0	3.6	7.4	12.0	18.3	32.5	58.4	96.0	165.7	262.6	384.1
7.5°	0.0	3.7	7.4	12.1	18.5	33.0	59.5	97.9	169.9	269.0	393.2
5°	0.0	3.7	7.5	12.1	18.6	33.4	60.3	99.2	172.8	273.6	399.6
2.5°	0.0	3.7	7.5	12.2	18.7	33.6	60.7	100.0	174.6	276.4	403.5
0°	0.0	3.7	7.5	12.2	18.7	33.7	60.9	100.3	175.2	277.3	404.8
-2.5°	0.0	3.7	7.5	12.2	18.7	33.7	60.9	100.3	175.2	277.3	404.8
-5°	0.0	3.7	7.5	12.1	18.6	33.4	60.3	99.2	172.8	273.6	399.6
-7.5°	0.0	3.7	7.4	12.1	18.5	33.0	59.5	97.9	169.9	269.0	393.2
-10°	0.0	3.6	7.4	12.0	18.3	32.5	58.4	96.0	165.7	262.6	384.1
-12.5°	0.0	3.6	7.3	11.9	18.1	31.9	56.9	93.6	160.4	254.4	372.6
-15°	0.0	3.6	7.2	11.7	17.8	31.1	55.2	90.6	154.0	244.4	358.5
-17.5°	0.0	3.5	7.1	11.5	17.5	30.2	53.2	87.2	146.4	232.6	342.0
-20°	0.0	3.5	7.0	11.3	17.1	29.1	50.8	83.2	137.7	219.1	323.1



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CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	0.0	3.4	6.9	11.1	16.7	27.9	48.2	78.7	127.9	204.0	301.9
-25°	0.0	3.4	6.8	10.9	16.2	26.6	45.3	73.7	117.0	187.2	278.4
-27.5°	0.0	3.3	6.6	10.6	15.7	25.1	42.1	68.3	105.1	170.5	257.5
-30°	0.0	3.2	6.5	10.3	15.2	23.5	38.6	62.4	96.0	155.9	235.2
-32.5°	0.0	3.1	6.3	10.0	14.6	21.8	34.9	57.5	88.7	140.1	211.2
-35°	0.0	3.0	6.1	9.6	14.0	20.0	32.1	52.8	80.9	123.3	185.6
-37.5°	0.0	2.9	5.9	9.3	13.3	18.4	29.8	47.9	72.6	105.5	162.9
-40°	0.0	2.8	5.7	8.9	12.6	17.5	27.3	42.6	63.9	93.2	141.9
-42.5°	0.0	2.7	5.5	8.5	11.9	16.6	24.7	37.1	56.6	82.8	119.9
-45°	0.0	2.6	5.3	8.1	11.4	15.6	22.0	32.4	50.0	71.9	98.5
-47.5°	0.0	2.5	5.0	7.6	10.8	14.6	19.1	29.0	43.1	60.7	86.0
-50°	0.0	2.4	4.8	7.2	10.1	13.5	17.6	25.6	35.9	52.6	72.9
-52.5°	0.0	2.3	4.5	6.8	9.5	12.4	16.3	22.0	30.8	44.3	59.9
-55°	0.0	2.1	4.3	6.4	8.8	11.5	14.9	18.5	26.6	35.7	50.3
-57.5°	0.0	2.0	4.0	6.0	8.2	10.7	13.5	16.9	22.2	29.9	40.5
-60°	0.0	1.8	3.7	5.6	7.5	9.8	12.1	15.2	18.3	24.9	31.9
-62.5°	0.0	1.7	3.4	5.2	6.9	8.9	11.0	13.5	16.3	19.8	26.2
-65°	0.0	1.6	3.1	4.7	6.3	8.0	9.9	11.8	14.3	16.9	20.4
-67.5°	0.0	1.4	2.8	4.3	5.7	7.1	8.8	10.5	12.3	14.6	16.9
-70°	0.0	1.3	2.5	3.8	5.1	6.4	7.6	9.2	10.7	12.3	14.3
-72.5°	0.0	1.1	2.2	3.3	4.4	5.6	6.7	7.9	9.2	10.5	11.8
-75°	0.0	1.0	1.9	2.9	3.8	4.8	5.7	6.7	7.6	8.8	9.9
-77.5°	0.0	0.8	1.6	2.4	3.2	4.0	4.8	5.6	6.4	7.1	8.0
-80°	0.0	0.6	1.3	1.9	2.6	3.2	3.8	4.4	5.1	5.7	6.3
-82.5°	0.0	0.5	1.0	1.4	1.9	2.4	2.9	3.3	3.8	4.3	4.7
-85°	0.0	0.3	0.6	1.0	1.3	1.6	1.9	2.2	2.5	2.8	3.1
-87.5°	0.0	0.2	0.3	0.5	0.6	0.8	1.0	1.1	1.3	1.4	1.6
-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°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
85°	3.4	3.7	4.0	4.3	4.5	4.8	5.0	5.3	5.5	5.7	5.9
82.5°	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.1	8.5	8.9	9.3
80°	6.9	7.5	8.2	8.8	9.5	10.1	10.8	11.4	11.9	12.6	13.3
77.5°	8.9	9.8	10.7	11.5	12.4	13.5	14.6	15.6	16.6	17.5	18.4
75°	11.0	12.1	13.5	14.9	16.3	17.6	19.1	22.0	24.7	27.3	29.8
72.5°	13.5	15.2	16.9	18.5	22.0	25.6	29.0	32.4	37.1	42.6	47.9
70°	16.3	18.3	22.2	26.6	30.8	35.9	43.1	50.0	56.6	63.9	72.6
67.5°	19.8	24.9	29.9	35.7	44.3	52.6	60.7	71.9	82.8	93.2	105.5
65°	26.2	31.9	40.5	50.3	59.9	72.9	86.0	98.5	119.9	141.9	162.9
62.5°	32.6	42.9	54.0	66.5	81.8	96.6	120.6	146.9	172.3	204.4	236.0
60°	42.9	55.2	70.1	87.2	106.9	137.7	167.5	204.0	241.8	278.4	321.7
57.5°	54.0	70.1	88.9	113.8	148.0	183.5	227.6	270.3	320.0	369.4	419.2
55°	66.5	87.2	113.8	151.5	193.0	242.0	292.6	350.1	405.8	471.0	533.4
52.5°	81.8	106.9	148.0	193.0	246.8	304.6	368.3	435.7	508.6	581.7	659.5
50°	96.6	137.7	183.5	242.0	304.6	374.4	450.7	531.3	617.0	704.1	794.2
47.5°	120.6	167.5	227.6	292.6	368.3	450.7	538.9	634.9	731.1	835.6	937.2
45°	146.9	204.0	270.3	350.1	435.7	531.3	634.9	740.2	856.4	965.5	1058.9
42.5°	172.3	241.8	320.0	405.8	508.6	617.0	731.1	856.4	974.6	1077.5	1145.7
40°	204.4	278.4	369.4	471.0	581.7	704.1	835.6	965.5	1077.5	1149.9	1197.0
37.5°	236.0	321.7	419.2	533.4	659.5	794.2	937.2	1058.9	1145.7	1197.0	1322.4
35°	266.1	362.9	474.0	598.0	733.9	885.0	1022.1	1133.1	1188.4	1311.0	1543.5
32.5°	298.7	401.8	525.9	663.2	813.1	967.6	1102.0	1171.3	1276.8	1468.3	1928.6
30°	331.9	445.8	576.9	724.7	888.7	1037.9	1146.1	1220.6	1377.5	1813.6	3056.8
27.5°	362.9	487.4	629.6	787.7	957.3	1103.8	1177.8	1309.2	1624.8	2397.4	4529.6
25°	391.5	525.9	678.4	848.2	1013.9	1140.5	1220.2	1391.8	1910.2	3690.4	5848.2
22.5°	420.5	561.2	723.1	903.6	1065.9	1165.7	1290.9	1611.0	2541.9	4886.8	7057.9
20°	449.3	598.0	766.7	952.6	1113.1	1188.6	1355.3	1834.8	3561.7	5918.9	8092.5
17.5°	475.0	630.9	807.7	991.2	1136.1	1224.6	1433.8	2035.7	4479.5	6850.1	8992.2
15°	497.4	659.5	843.5	1025.1	1152.6	1271.3	1596.9	2703.3	5261.5	7648.7	9790.9
12.5°	516.5	684.0	874.1	1054.0	1166.7	1311.2	1736.6	3344.5	5915.0	8283.3	10508.1
10°	532.2	704.1	899.3	1077.8	1178.4	1344.2	1852.2	3875.4	6457.1	8810.6	11105.4
7.5°	544.4	719.9	919.0	1096.5	1187.5	1370.1	1942.8	4292.4	6883.4	9226.0	11576.7
5°	553.2	731.1	933.2	1109.9	1194.0	1388.7	2008.0	4592.5	7190.4	9525.6	11917.2
2.5°	558.5	737.9	941.7	1117.9	1198.0	1399.9	2047.3	4773.4	7375.8	9706.5	12123.0
0°	560.3	740.2	944.5	1120.6	1199.3	1403.6	2060.4	4833.9	7437.7	9767.0	12191.9
-2.5°	558.5	737.9	941.7	1117.9	1198.0	1399.9	2047.3	4773.4	7375.8	9706.5	12123.0
-5°	553.2	731.1	933.2	1109.9	1194.0	1388.7	2008.0	4592.5	7190.4	9525.6	11917.2
-7.5°	544.4	719.9	919.0	1096.5	1187.5	1370.1	1942.8	4292.4	6883.4	9226.0	11576.7
-10°	532.2	704.1	899.3	1077.8	1178.4	1344.2	1852.2	3875.4	6457.1	8810.6	11105.4
-12.5°	516.5	684.0	874.1	1054.0	1166.7	1311.2	1736.6	3344.5	5915.0	8283.3	10508.1
-15°	497.4	659.5	843.5	1025.1	1152.6	1271.3	1596.9	2703.3	5261.5	7648.7	9790.9
-17.5°	475.0	630.9	807.7	991.2	1136.1	1224.6	1433.8	2035.7	4479.5	6850.1	8992.2
-20°	449.3	598.0	766.7	952.6	1113.1	1188.6	1355.3	1834.8	3561.7	5918.9	8092.5



REPORT NUMBER: P701401 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	420.5	561.2	723.1	903.6	1065.9	1165.7	1290.9	1611.0	2541.9	4886.8	7057.9
-25°	391.5	525.9	678.4	848.2	1013.9	1140.5	1220.2	1391.8	1910.2	3690.4	5848.2
-27.5°	362.9	487.4	629.6	787.7	957.3	1103.8	1177.8	1309.2	1624.8	2397.4	4529.6
-30°	331.9	445.8	576.9	724.7	888.7	1037.9	1146.1	1220.6	1377.5	1813.6	3056.8
-32.5°	298.7	401.8	525.9	663.2	813.1	967.6	1102.0	1171.3	1276.8	1468.3	1928.6
-35°	266.1	362.9	474.0	598.0	733.9	885.0	1022.1	1133.1	1188.4	1311.0	1543.5
-37.5°	236.0	321.7	419.2	533.4	659.5	794.2	937.2	1058.9	1145.7	1197.0	1322.4
-40°	204.4	278.4	369.4	471.0	581.7	704.1	835.6	965.5	1077.5	1149.9	1197.0
-42.5°	172.3	241.8	320.0	405.8	508.6	617.0	731.1	856.4	974.6	1077.5	1145.7
-45°	146.9	204.0	270.3	350.1	435.7	531.3	634.9	740.2	856.4	965.5	1058.9
-47.5°	120.6	167.5	227.6	292.6	368.3	450.7	538.9	634.9	731.1	835.6	937.2
-50°	96.6	137.7	183.5	242.0	304.6	374.4	450.7	531.3	617.0	704.1	794.2
-52.5°	81.8	106.9	148.0	193.0	246.8	304.6	368.3	435.7	508.6	581.7	659.5
-55°	66.5	87.2	113.8	151.5	193.0	242.0	292.6	350.1	405.8	471.0	533.4
-57.5°	54.0	70.1	88.9	113.8	148.0	183.5	227.6	270.3	320.0	369.4	419.2
-60°	42.9	55.2	70.1	87.2	106.9	137.7	167.5	204.0	241.8	278.4	321.7
-62.5°	32.6	42.9	54.0	66.5	81.8	96.6	120.6	146.9	172.3	204.4	236.0
-65°	26.2	31.9	40.5	50.3	59.9	72.9	86.0	98.5	119.9	141.9	162.9
-67.5°	19.8	24.9	29.9	35.7	44.3	52.6	60.7	71.9	82.8	93.2	105.5
-70°	16.3	18.3	22.2	26.6	30.8	35.9	43.1	50.0	56.6	63.9	72.6
-72.5°	13.5	15.2	16.9	18.5	22.0	25.6	29.0	32.4	37.1	42.6	47.9
-75°	11.0	12.1	13.5	14.9	16.3	17.6	19.1	22.0	24.7	27.3	29.8
-77.5°	8.9	9.8	10.7	11.5	12.4	13.5	14.6	15.6	16.6	17.5	18.4
-80°	6.9	7.5	8.2	8.8	9.5	10.1	10.8	11.4	11.9	12.6	13.3
-82.5°	5.2	5.6	6.0	6.4	6.8	7.2	7.6	8.1	8.5	8.9	9.3
-85°	3.4	3.7	4.0	4.3	4.5	4.8	5.0	5.3	5.5	5.7	5.9
-87.5°	1.7	1.8	2.0	2.1	2.3	2.4	2.5	2.6	2.7	2.8	2.9
-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):

	-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°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.6
85°	6.1	6.3	6.5	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4
82.5°	9.6	10.0	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.9	12.0
80°	14.0	14.6	15.2	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.3
77.5°	20.0	21.8	23.5	25.1	26.6	27.9	29.1	30.2	31.1	31.9	32.5
75°	32.1	34.9	38.6	42.1	45.3	48.2	50.8	53.2	55.2	56.9	58.4
72.5°	52.8	57.5	62.4	68.3	73.7	78.7	83.2	87.2	90.6	93.6	96.0
70°	80.9	88.7	96.0	105.1	117.0	127.9	137.7	146.4	154.0	160.4	165.7
67.5°	123.3	140.1	155.9	170.5	187.2	204.0	219.1	232.6	244.4	254.4	262.6
65°	185.6	211.2	235.2	257.5	278.4	301.9	323.1	342.0	358.5	372.6	384.1
62.5°	266.1	298.7	331.9	362.9	391.5	420.5	449.3	475.0	497.4	516.5	532.2
60°	362.9	401.8	445.8	487.4	525.9	561.2	598.0	630.9	659.5	684.0	704.1
57.5°	474.0	525.9	576.9	629.6	678.4	723.1	766.7	807.7	843.5	874.1	899.3
55°	598.0	663.2	724.7	787.7	848.2	903.6	952.6	991.2	1025.1	1054.0	1077.8
52.5°	733.9	813.1	888.7	957.3	1013.9	1065.9	1113.1	1136.1	1152.6	1166.7	1178.4
50°	885.0	967.6	1037.9	1103.8	1140.5	1165.7	1188.6	1224.6	1271.3	1311.2	1344.2
47.5°	1022.1	1102.0	1146.1	1177.8	1220.2	1290.9	1355.3	1433.8	1596.9	1736.6	1852.2
45°	1133.1	1171.3	1220.6	1309.2	1391.8	1611.0	1834.8	2035.7	2703.3	3344.5	3875.4
42.5°	1188.4	1276.8	1377.5	1624.8	1910.2	2541.9	3561.7	4479.5	5261.5	5915.0	6457.1
40°	1311.0	1468.3	1813.6	2397.4	3690.4	4886.8	5918.9	6850.1	7648.7	8283.3	8810.6
37.5°	1543.5	1928.6	3056.8	4529.6	5848.2	7057.9	8092.5	8992.2	9790.9	10508.1	11105.4
35°	1967.2	3390.2	5028.3	6502.2	7844.5	9005.5	10088.6	11099.9	11999.4	12857.4	13595.4
32.5°	3390.2	5189.6	6833.4	8300.3	9628.3	10918.0	12116.7	13345.3	14451.2	15572.0	16651.0
30°	5028.3	6833.4	8453.6	9951.5	11425.7	12896.1	14358.2	15952.0	17559.3	19140.2	20952.3
27.5°	6502.2	8300.3	9951.5	11596.7	13297.4	14992.9	17098.7	19252.1	21932.4	24283.4	26307.6
25°	7844.5	9628.3	11425.7	13297.4	15274.1	17683.2	20650.1	23863.1	26823.4	29443.0	31656.2
22.5°	9005.5	10918.0	12896.1	14992.9	17683.2	21122.7	24861.6	28398.8	31615.5	34463.1	37047.0
20°	10088.6	12116.7	14358.2	17098.7	20650.1	24861.6	28933.1	32730.5	36274.3	39815.8	42994.3
17.5°	11099.9	13345.3	15952.0	19252.1	23863.1	28398.8	32730.5	36951.2	41251.3	45721.6	49806.0
15°	11999.4	14451.2	17559.3	21932.4	26823.4	31615.5	36274.3	41251.3	46657.1	52109.8	57456.8
12.5°	12857.4	15572.0	19140.2	24283.4	29443.0	34463.1	39815.8	45721.6	52109.8	58755.5	63350.0
10°	13595.4	16651.0	20952.3	26307.6	31656.2	37047.0	42994.3	49806.0	57456.8	63350.0	67768.9
7.5°	14179.2	17506.8	22394.4	27925.5	33430.4	39279.4	45987.5	53711.5	61239.2	66878.5	70450.4
5°	14601.6	18127.5	23443.2	29106.2	34730.8	40925.2	48211.3	56674.8	63799.1	68931.1	72077.3
2.5°	14857.3	18503.8	24080.2	29825.1	35525.2	41934.9	49583.5	58518.3	65410.8	70068.2	72951.1
0°	14942.9	18629.9	24293.9	30066.6	35792.5	42275.4	50047.6	59144.7	65962.2	70417.5	73250.0
-2.5°	14857.3	18503.8	24080.2	29825.1	35525.2	41934.9	49583.5	58518.3	65410.8	70068.2	72951.1
-5°	14601.6	18127.5	23443.2	29106.2	34730.8	40925.2	48211.3	56674.8	63799.1	68931.1	72077.3
-7.5°	14179.2	17506.8	22394.4	27925.5	33430.4	39279.4	45987.5	53711.5	61239.2	66878.5	70450.4
-10°	13595.4	16651.0	20952.3	26307.6	31656.2	37047.0	42994.3	49806.0	57456.8	63350.0	67768.9
-12.5°	12857.4	15572.0	19140.2	24283.4	29443.0	34463.1	39815.8	45721.6	52109.8	58755.5	63350.0
-15°	11999.4	14451.2	17559.3	21932.4	26823.4	31615.5	36274.3	41251.3	46657.1	52109.8	57456.8
-17.5°	11099.9	13345.3	15952.0	19252.1	23863.1	28398.8	32730.5	36951.2	41251.3	45721.6	49806.0
-20°	10088.6	12116.7	14358.2	17098.7	20650.1	24861.6	28933.1	32730.5	36274.3	39815.8	42994.3



REPORT NUMBER: P701401 (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°
-22.5°	9005.5	10918.0	12896.1	14992.9	17683.2	21122.7	24861.6	28398.8	31615.5	34463.1	37047.0
-25°	7844.5	9628.3	11425.7	13297.4	15274.1	17683.2	20650.1	23863.1	26823.4	29443.0	31656.2
-27.5°	6502.2	8300.3	9951.5	11596.7	13297.4	14992.9	17098.7	19252.1	21932.4	24283.4	26307.6
-30°	5028.3	6833.4	8453.6	9951.5	11425.7	12896.1	14358.2	15952.0	17559.3	19140.2	20952.3
-32.5°	3390.2	5189.6	6833.4	8300.3	9628.3	10918.0	12116.7	13345.3	14451.2	15572.0	16651.0
-35°	1967.2	3390.2	5028.3	6502.2	7844.5	9005.5	10088.6	11099.9	11999.4	12857.4	13595.4
-37.5°	1543.5	1928.6	3056.8	4529.6	5848.2	7057.9	8092.5	8992.2	9790.9	10508.1	11105.4
-40°	1311.0	1468.3	1813.6	2397.4	3690.4	4886.8	5918.9	6850.1	7648.7	8283.3	8810.6
-42.5°	1188.4	1276.8	1377.5	1624.8	1910.2	2541.9	3561.7	4479.5	5261.5	5915.0	6457.1
-45°	1133.1	1171.3	1220.6	1309.2	1391.8	1611.0	1834.8	2035.7	2703.3	3344.5	3875.4
-47.5°	1022.1	1102.0	1146.1	1177.8	1220.2	1290.9	1355.3	1433.8	1596.9	1736.6	1852.2
-50°	885.0	967.6	1037.9	1103.8	1140.5	1165.7	1188.6	1224.6	1271.3	1311.2	1344.2
-52.5°	733.9	813.1	888.7	957.3	1013.9	1065.9	1113.1	1136.1	1152.6	1166.7	1178.4
-55°	598.0	663.2	724.7	787.7	848.2	903.6	952.6	991.2	1025.1	1054.0	1077.8
-57.5°	474.0	525.9	576.9	629.6	678.4	723.1	766.7	807.7	843.5	874.1	899.3
-60°	362.9	401.8	445.8	487.4	525.9	561.2	598.0	630.9	659.5	684.0	704.1
-62.5°	266.1	298.7	331.9	362.9	391.5	420.5	449.3	475.0	497.4	516.5	532.2
-65°	185.6	211.2	235.2	257.5	278.4	301.9	323.1	342.0	358.5	372.6	384.1
-67.5°	123.3	140.1	155.9	170.5	187.2	204.0	219.1	232.6	244.4	254.4	262.6
-70°	80.9	88.7	96.0	105.1	117.0	127.9	137.7	146.4	154.0	160.4	165.7
-72.5°	52.8	57.5	62.4	68.3	73.7	78.7	83.2	87.2	90.6	93.6	96.0
-75°	32.1	34.9	38.6	42.1	45.3	48.2	50.8	53.2	55.2	56.9	58.4
-77.5°	20.0	21.8	23.5	25.1	26.6	27.9	29.1	30.2	31.1	31.9	32.5
-80°	14.0	14.6	15.2	15.7	16.2	16.7	17.1	17.5	17.8	18.1	18.3
-82.5°	9.6	10.0	10.3	10.6	10.9	11.1	11.3	11.5	11.7	11.9	12.0
-85°	6.1	6.3	6.5	6.6	6.8	6.9	7.0	7.1	7.2	7.3	7.4
-87.5°	3.0	3.1	3.2	3.3	3.4	3.4	3.5	3.5	3.6	3.6	3.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701401 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-HEG-S

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°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
85°	7.4	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.3	7.2	7.1
82.5°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	12.0	11.9	11.7	11.5
80°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.3	18.1	17.8	17.5
77.5°	33.0	33.4	33.6	33.7	33.6	33.4	33.0	32.5	31.9	31.1	30.2
75°	59.5	60.3	60.7	60.9	60.7	60.3	59.5	58.4	56.9	55.2	53.2
72.5°	97.9	99.2	100.0	100.3	100.0	99.2	97.9	96.0	93.6	90.6	87.2
70°	169.9	172.8	174.6	175.2	174.6	172.8	169.9	165.7	160.4	154.0	146.4
67.5°	269.0	273.6	276.4	277.3	276.4	273.6	269.0	262.6	254.4	244.4	232.6
65°	393.2	399.6	403.5	404.8	403.5	399.6	393.2	384.1	372.6	358.5	342.0
62.5°	544.4	553.2	558.5	560.3	558.5	553.2	544.4	532.2	516.5	497.4	475.0
60°	719.9	731.1	737.9	740.2	737.9	731.1	719.9	704.1	684.0	659.5	630.9
57.5°	919.0	933.2	941.7	944.5	941.7	933.2	919.0	899.3	874.1	843.5	807.7
55°	1096.5	1109.9	1117.9	1120.6	1117.9	1109.9	1096.5	1077.8	1054.0	1025.1	991.2
52.5°	1187.5	1194.0	1198.0	1199.3	1198.0	1194.0	1187.5	1178.4	1166.7	1152.6	1136.1
50°	1370.1	1388.7	1399.9	1403.6	1399.9	1388.7	1370.1	1344.2	1311.2	1271.3	1224.6
47.5°	1942.8	2008.0	2047.3	2060.4	2047.3	2008.0	1942.8	1852.2	1736.6	1596.9	1433.8
45°	4292.4	4592.5	4773.4	4833.9	4773.4	4592.5	4292.4	3875.4	3344.5	2703.3	2035.7
42.5°	6883.4	7190.4	7375.8	7437.7	7375.8	7190.4	6883.4	6457.1	5915.0	5261.5	4479.5
40°	9226.0	9525.6	9706.5	9767.0	9706.5	9525.6	9226.0	8810.6	8283.3	7648.7	6850.1
37.5°	11576.7	11917.2	12123.0	12191.9	12123.0	11917.2	11576.7	11105.4	10508.1	9790.9	8992.2
35°	14179.2	14601.6	14857.3	14942.9	14857.3	14601.6	14179.2	13595.4	12857.4	11999.4	11099.9
32.5°	17506.8	18127.5	18503.8	18629.9	18503.8	18127.5	17506.8	16651.0	15572.0	14451.2	13345.3
30°	22394.4	23443.2	24080.2	24293.9	24080.2	23443.2	22394.4	20952.3	19140.2	17559.3	15952.0
27.5°	27925.5	29106.2	29825.1	30066.6	29825.1	29106.2	27925.5	26307.6	24283.4	21932.4	19252.1
25°	33430.4	34730.8	35525.2	35792.5	35525.2	34730.8	33430.4	31656.2	29443.0	26823.4	23863.1
22.5°	39279.4	40925.2	41934.9	42275.4	41934.9	40925.2	39279.4	37047.0	34463.1	31615.5	28398.8
20°	45987.5	48211.3	49583.5	50047.6	49583.5	48211.3	45987.5	42994.3	39815.8	36274.3	32730.5
17.5°	53711.5	56674.8	58518.3	59144.7	58518.3	56674.8	53711.5	49806.0	45721.6	41251.3	36951.2
15°	61239.2	63799.1	65410.8	65962.2	65410.8	63799.1	61239.2	57456.8	52109.8	46657.1	41251.3
12.5°	66878.5	68931.1	70068.2	70417.5	70068.2	68931.1	66878.5	63350.0	58755.5	52109.8	45721.6
10°	70450.4	72077.3	72951.1	73250.0	72951.1	72077.3	70450.4	67768.9	63350.0	57456.8	49806.0
7.5°	72669.8	74184.2	75093.8	75414.4	75093.8	74184.2	72669.8	70450.4	66878.5	61239.2	53711.5
5°	74184.2	75758.8	76735.6	77033.5	76735.6	75758.8	74184.2	72077.3	68931.1	63799.1	56674.8
2.5°	75093.8	76735.6	77205.0	77189.0	77205.0	76735.6	75093.8	72951.1	70068.2	65410.8	58518.3
0°	75414.4	77033.5	77189.0	76891.1	77189.0	77033.5	75414.4	73250.0	70417.5	65962.2	59144.7
-2.5°	75093.8	76735.6	77205.0	77189.0	77205.0	76735.6	75093.8	72951.1	70068.2	65410.8	58518.3
-5°	74184.2	75758.8	76735.6	77033.5	76735.6	75758.8	74184.2	72077.3	68931.1	63799.1	56674.8
-7.5°	72669.8	74184.2	75093.8	75414.4	75093.8	74184.2	72669.8	70450.4	66878.5	61239.2	53711.5
-10°	70450.4	72077.3	72951.1	73250.0	72951.1	72077.3	70450.4	67768.9	63350.0	57456.8	49806.0
-12.5°	66878.5	68931.1	70068.2	70417.5	70068.2	68931.1	66878.5	63350.0	58755.5	52109.8	45721.6
-15°	61239.2	63799.1	65410.8	65962.2	65410.8	63799.1	61239.2	57456.8	52109.8	46657.1	41251.3
-17.5°	53711.5	56674.8	58518.3	59144.7	58518.3	56674.8	53711.5	49806.0	45721.6	41251.3	36951.2
-20°	45987.5	48211.3	49583.5	50047.6	49583.5	48211.3	45987.5	42994.3	39815.8	36274.3	32730.5



REPORT NUMBER: P701401 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-HEG-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	39279.4	40925.2	41934.9	42275.4	41934.9	40925.2	39279.4	37047.0	34463.1	31615.5	28398.8
-25°	33430.4	34730.8	35525.2	35792.5	35525.2	34730.8	33430.4	31656.2	29443.0	26823.4	23863.1
-27.5°	27925.5	29106.2	29825.1	30066.6	29825.1	29106.2	27925.5	26307.6	24283.4	21932.4	19252.1
-30°	22394.4	23443.2	24080.2	24293.9	24080.2	23443.2	22394.4	20952.3	19140.2	17559.3	15952.0
-32.5°	17506.8	18127.5	18503.8	18629.9	18503.8	18127.5	17506.8	16651.0	15572.0	14451.2	13345.3
-35°	14179.2	14601.6	14857.3	14942.9	14857.3	14601.6	14179.2	13595.4	12857.4	11999.4	11099.9
-37.5°	11576.7	11917.2	12123.0	12191.9	12123.0	11917.2	11576.7	11105.4	10508.1	9790.9	8992.2
-40°	9226.0	9525.6	9706.5	9767.0	9706.5	9525.6	9226.0	8810.6	8283.3	7648.7	6850.1
-42.5°	6883.4	7190.4	7375.8	7437.7	7375.8	7190.4	6883.4	6457.1	5915.0	5261.5	4479.5
-45°	4292.4	4592.5	4773.4	4833.9	4773.4	4592.5	4292.4	3875.4	3344.5	2703.3	2035.7
-47.5°	1942.8	2008.0	2047.3	2060.4	2047.3	2008.0	1942.8	1852.2	1736.6	1596.9	1433.8
-50°	1370.1	1388.7	1399.9	1403.6	1399.9	1388.7	1370.1	1344.2	1311.2	1271.3	1224.6
-52.5°	1187.5	1194.0	1198.0	1199.3	1198.0	1194.0	1187.5	1178.4	1166.7	1152.6	1136.1
-55°	1096.5	1109.9	1117.9	1120.6	1117.9	1109.9	1096.5	1077.8	1054.0	1025.1	991.2
-57.5°	919.0	933.2	941.7	944.5	941.7	933.2	919.0	899.3	874.1	843.5	807.7
-60°	719.9	731.1	737.9	740.2	737.9	731.1	719.9	704.1	684.0	659.5	630.9
-62.5°	544.4	553.2	558.5	560.3	558.5	553.2	544.4	532.2	516.5	497.4	475.0
-65°	393.2	399.6	403.5	404.8	403.5	399.6	393.2	384.1	372.6	358.5	342.0
-67.5°	269.0	273.6	276.4	277.3	276.4	273.6	269.0	262.6	254.4	244.4	232.6
-70°	169.9	172.8	174.6	175.2	174.6	172.8	169.9	165.7	160.4	154.0	146.4
-72.5°	97.9	99.2	100.0	100.3	100.0	99.2	97.9	96.0	93.6	90.6	87.2
-75°	59.5	60.3	60.7	60.9	60.7	60.3	59.5	58.4	56.9	55.2	53.2
-77.5°	33.0	33.4	33.6	33.7	33.6	33.4	33.0	32.5	31.9	31.1	30.2
-80°	18.5	18.6	18.7	18.7	18.7	18.6	18.5	18.3	18.1	17.8	17.5
-82.5°	12.1	12.1	12.2	12.2	12.2	12.1	12.1	12.0	11.9	11.7	11.5
-85°	7.4	7.5	7.5	7.5	7.5	7.5	7.4	7.4	7.3	7.2	7.1
-87.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.5
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701401 (CONVERTED FROM TYPE C PHOTOMETRY)
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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°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
85°	7.0	6.9	6.8	6.6	6.5	6.3	6.1	5.9	5.7	5.5	5.3
82.5°	11.3	11.1	10.9	10.6	10.3	10.0	9.6	9.3	8.9	8.5	8.1
80°	17.1	16.7	16.2	15.7	15.2	14.6	14.0	13.3	12.6	11.9	11.4
77.5°	29.1	27.9	26.6	25.1	23.5	21.8	20.0	18.4	17.5	16.6	15.6
75°	50.8	48.2	45.3	42.1	38.6	34.9	32.1	29.8	27.3	24.7	22.0
72.5°	83.2	78.7	73.7	68.3	62.4	57.5	52.8	47.9	42.6	37.1	32.4
70°	137.7	127.9	117.0	105.1	96.0	88.7	80.9	72.6	63.9	56.6	50.0
67.5°	219.1	204.0	187.2	170.5	155.9	140.1	123.3	105.5	93.2	82.8	71.9
65°	323.1	301.9	278.4	257.5	235.2	211.2	185.6	162.9	141.9	119.9	98.5
62.5°	449.3	420.5	391.5	362.9	331.9	298.7	266.1	236.0	204.4	172.3	146.9
60°	598.0	561.2	525.9	487.4	445.8	401.8	362.9	321.7	278.4	241.8	204.0
57.5°	766.7	723.1	678.4	629.6	576.9	525.9	474.0	419.2	369.4	320.0	270.3
55°	952.6	903.6	848.2	787.7	724.7	663.2	598.0	533.4	471.0	405.8	350.1
52.5°	1113.1	1065.9	1013.9	957.3	888.7	813.1	733.9	659.5	581.7	508.6	435.7
50°	1188.6	1165.7	1140.5	1103.8	1037.9	967.6	885.0	794.2	704.1	617.0	531.3
47.5°	1355.3	1290.9	1220.2	1177.8	1146.1	1102.0	1022.1	937.2	835.6	731.1	634.9
45°	1834.8	1611.0	1391.8	1309.2	1220.6	1171.3	1133.1	1058.9	965.5	856.4	740.2
42.5°	3561.7	2541.9	1910.2	1624.8	1377.5	1276.8	1188.4	1145.7	1077.5	974.6	856.4
40°	5918.9	4886.8	3690.4	2397.4	1813.6	1468.3	1311.0	1197.0	1149.9	1077.5	965.5
37.5°	8092.5	7057.9	5848.2	4529.6	3056.8	1928.6	1543.5	1322.4	1197.0	1145.7	1058.9
35°	10088.6	9005.5	7844.5	6502.2	5028.3	3390.2	1967.2	1543.5	1311.0	1188.4	1133.1
32.5°	12116.7	10918.0	9628.3	8300.3	6833.4	5189.6	3390.2	1928.6	1468.3	1276.8	1171.3
30°	14358.2	12896.1	11425.7	9951.5	8453.6	6833.4	5028.3	3056.8	1813.6	1377.5	1220.6
27.5°	17098.7	14992.9	13297.4	11596.7	9951.5	8300.3	6502.2	4529.6	2397.4	1624.8	1309.2
25°	20650.1	17683.2	15274.1	13297.4	11425.7	9628.3	7844.5	5848.2	3690.4	1910.2	1391.8
22.5°	24861.6	21122.7	17683.2	14992.9	12896.1	10918.0	9005.5	7057.9	4886.8	2541.9	1611.0
20°	28933.1	24861.6	20650.1	17098.7	14358.2	12116.7	10088.6	8092.5	5918.9	3561.7	1834.8
17.5°	32730.5	28398.8	23863.1	19252.1	15952.0	13345.3	11099.9	8992.2	6850.1	4479.5	2035.7
15°	36274.3	31615.5	26823.4	21932.4	17559.3	14451.2	11999.4	9790.9	7648.7	5261.5	2703.3
12.5°	39815.8	34463.1	29443.0	24283.4	19140.2	15572.0	12857.4	10508.1	8283.3	5915.0	3344.5
10°	42994.3	37047.0	31656.2	26307.6	20952.3	16651.0	13595.4	11105.4	8810.6	6457.1	3875.4
7.5°	45987.5	39279.4	33430.4	27925.5	22394.4	17506.8	14179.2	11576.7	9226.0	6883.4	4292.4
5°	48211.3	40925.2	34730.8	29106.2	23443.2	18127.5	14601.6	11917.2	9525.6	7190.4	4592.5
2.5°	49583.5	41934.9	35525.2	29825.1	24080.2	18503.8	14857.3	12123.0	9706.5	7375.8	4773.4
0°	50047.6	42275.4	35792.5	30066.6	24293.9	18629.9	14942.9	12191.9	9767.0	7437.7	4833.9
-2.5°	49583.5	41934.9	35525.2	29825.1	24080.2	18503.8	14857.3	12123.0	9706.5	7375.8	4773.4
-5°	48211.3	40925.2	34730.8	29106.2	23443.2	18127.5	14601.6	11917.2	9525.6	7190.4	4592.5
-7.5°	45987.5	39279.4	33430.4	27925.5	22394.4	17506.8	14179.2	11576.7	9226.0	6883.4	4292.4
-10°	42994.3	37047.0	31656.2	26307.6	20952.3	16651.0	13595.4	11105.4	8810.6	6457.1	3875.4
-12.5°	39815.8	34463.1	29443.0	24283.4	19140.2	15572.0	12857.4	10508.1	8283.3	5915.0	3344.5
-15°	36274.3	31615.5	26823.4	21932.4	17559.3	14451.2	11999.4	9790.9	7648.7	5261.5	2703.3
-17.5°	32730.5	28398.8	23863.1	19252.1	15952.0	13345.3	11099.9	8992.2	6850.1	4479.5	2035.7
-20°	28933.1	24861.6	20650.1	17098.7	14358.2	12116.7	10088.6	8092.5	5918.9	3561.7	1834.8



REPORT NUMBER: P701401 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-HEG-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	24861.6	21122.7	17683.2	14992.9	12896.1	10918.0	9005.5	7057.9	4886.8	2541.9	1611.0
-25°	20650.1	17683.2	15274.1	13297.4	11425.7	9628.3	7844.5	5848.2	3690.4	1910.2	1391.8
-27.5°	17098.7	14992.9	13297.4	11596.7	9951.5	8300.3	6502.2	4529.6	2397.4	1624.8	1309.2
-30°	14358.2	12896.1	11425.7	9951.5	8453.6	6833.4	5028.3	3056.8	1813.6	1377.5	1220.6
-32.5°	12116.7	10918.0	9628.3	8300.3	6833.4	5189.6	3390.2	1928.6	1468.3	1276.8	1171.3
-35°	10088.6	9005.5	7844.5	6502.2	5028.3	3390.2	1967.2	1543.5	1311.0	1188.4	1133.1
-37.5°	8092.5	7057.9	5848.2	4529.6	3056.8	1928.6	1543.5	1322.4	1197.0	1145.7	1058.9
-40°	5918.9	4886.8	3690.4	2397.4	1813.6	1468.3	1311.0	1197.0	1149.9	1077.5	965.5
-42.5°	3561.7	2541.9	1910.2	1624.8	1377.5	1276.8	1188.4	1145.7	1077.5	974.6	856.4
-45°	1834.8	1611.0	1391.8	1309.2	1220.6	1171.3	1133.1	1058.9	965.5	856.4	740.2
-47.5°	1355.3	1290.9	1220.2	1177.8	1146.1	1102.0	1022.1	937.2	835.6	731.1	634.9
-50°	1188.6	1165.7	1140.5	1103.8	1037.9	967.6	885.0	794.2	704.1	617.0	531.3
-52.5°	1113.1	1065.9	1013.9	957.3	888.7	813.1	733.9	659.5	581.7	508.6	435.7
-55°	952.6	903.6	848.2	787.7	724.7	663.2	598.0	533.4	471.0	405.8	350.1
-57.5°	766.7	723.1	678.4	629.6	576.9	525.9	474.0	419.2	369.4	320.0	270.3
-60°	598.0	561.2	525.9	487.4	445.8	401.8	362.9	321.7	278.4	241.8	204.0
-62.5°	449.3	420.5	391.5	362.9	331.9	298.7	266.1	236.0	204.4	172.3	146.9
-65°	323.1	301.9	278.4	257.5	235.2	211.2	185.6	162.9	141.9	119.9	98.5
-67.5°	219.1	204.0	187.2	170.5	155.9	140.1	123.3	105.5	93.2	82.8	71.9
-70°	137.7	127.9	117.0	105.1	96.0	88.7	80.9	72.6	63.9	56.6	50.0
-72.5°	83.2	78.7	73.7	68.3	62.4	57.5	52.8	47.9	42.6	37.1	32.4
-75°	50.8	48.2	45.3	42.1	38.6	34.9	32.1	29.8	27.3	24.7	22.0
-77.5°	29.1	27.9	26.6	25.1	23.5	21.8	20.0	18.4	17.5	16.6	15.6
-80°	17.1	16.7	16.2	15.7	15.2	14.6	14.0	13.3	12.6	11.9	11.4
-82.5°	11.3	11.1	10.9	10.6	10.3	10.0	9.6	9.3	8.9	8.5	8.1
-85°	7.0	6.9	6.8	6.6	6.5	6.3	6.1	5.9	5.7	5.5	5.3
-87.5°	3.5	3.4	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P701401 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320L-40-80-5S-HEG-S

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°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1
85°	5.0	4.8	4.5	4.3	4.0	3.7	3.4	3.1	2.8	2.5	2.2
82.5°	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.7	4.3	3.8	3.3
80°	10.8	10.1	9.5	8.8	8.2	7.5	6.9	6.3	5.7	5.1	4.4
77.5°	14.6	13.5	12.4	11.5	10.7	9.8	8.9	8.0	7.1	6.4	5.6
75°	19.1	17.6	16.3	14.9	13.5	12.1	11.0	9.9	8.8	7.6	6.7
72.5°	29.0	25.6	22.0	18.5	16.9	15.2	13.5	11.8	10.5	9.2	7.9
70°	43.1	35.9	30.8	26.6	22.2	18.3	16.3	14.3	12.3	10.7	9.2
67.5°	60.7	52.6	44.3	35.7	29.9	24.9	19.8	16.9	14.6	12.3	10.5
65°	86.0	72.9	59.9	50.3	40.5	31.9	26.2	20.4	16.9	14.3	11.8
62.5°	120.6	96.6	81.8	66.5	54.0	42.9	32.6	26.2	19.8	16.3	13.5
60°	167.5	137.7	106.9	87.2	70.1	55.2	42.9	31.9	24.9	18.3	15.2
57.5°	227.6	183.5	148.0	113.8	88.9	70.1	54.0	40.5	29.9	22.2	16.9
55°	292.6	242.0	193.0	151.5	113.8	87.2	66.5	50.3	35.7	26.6	18.5
52.5°	368.3	304.6	246.8	193.0	148.0	106.9	81.8	59.9	44.3	30.8	22.0
50°	450.7	374.4	304.6	242.0	183.5	137.7	96.6	72.9	52.6	35.9	25.6
47.5°	538.9	450.7	368.3	292.6	227.6	167.5	120.6	86.0	60.7	43.1	29.0
45°	634.9	531.3	435.7	350.1	270.3	204.0	146.9	98.5	71.9	50.0	32.4
42.5°	731.1	617.0	508.6	405.8	320.0	241.8	172.3	119.9	82.8	56.6	37.1
40°	835.6	704.1	581.7	471.0	369.4	278.4	204.4	141.9	93.2	63.9	42.6
37.5°	937.2	794.2	659.5	533.4	419.2	321.7	236.0	162.9	105.5	72.6	47.9
35°	1022.1	885.0	733.9	598.0	474.0	362.9	266.1	185.6	123.3	80.9	52.8
32.5°	1102.0	967.6	813.1	663.2	525.9	401.8	298.7	211.2	140.1	88.7	57.5
30°	1146.1	1037.9	888.7	724.7	576.9	445.8	331.9	235.2	155.9	96.0	62.4
27.5°	1177.8	1103.8	957.3	787.7	629.6	487.4	362.9	257.5	170.5	105.1	68.3
25°	1220.2	1140.5	1013.9	848.2	678.4	525.9	391.5	278.4	187.2	117.0	73.7
22.5°	1290.9	1165.7	1065.9	903.6	723.1	561.2	420.5	301.9	204.0	127.9	78.7
20°	1355.3	1188.6	1113.1	952.6	766.7	598.0	449.3	323.1	219.1	137.7	83.2
17.5°	1433.8	1224.6	1136.1	991.2	807.7	630.9	475.0	342.0	232.6	146.4	87.2
15°	1596.9	1271.3	1152.6	1025.1	843.5	659.5	497.4	358.5	244.4	154.0	90.6
12.5°	1736.6	1311.2	1166.7	1054.0	874.1	684.0	516.5	372.6	254.4	160.4	93.6
10°	1852.2	1344.2	1178.4	1077.8	899.3	704.1	532.2	384.1	262.6	165.7	96.0
7.5°	1942.8	1370.1	1187.5	1096.5	919.0	719.9	544.4	393.2	269.0	169.9	97.9
5°	2008.0	1388.7	1194.0	1109.9	933.2	731.1	553.2	399.6	273.6	172.8	99.2
2.5°	2047.3	1399.9	1198.0	1117.9	941.7	737.9	558.5	403.5	276.4	174.6	100.0
0°	2060.4	1403.6	1199.3	1120.6	944.5	740.2	560.3	404.8	277.3	175.2	100.3
-2.5°	2047.3	1399.9	1198.0	1117.9	941.7	737.9	558.5	403.5	276.4	174.6	100.0
-5°	2008.0	1388.7	1194.0	1109.9	933.2	731.1	553.2	399.6	273.6	172.8	99.2
-7.5°	1942.8	1370.1	1187.5	1096.5	919.0	719.9	544.4	393.2	269.0	169.9	97.9
-10°	1852.2	1344.2	1178.4	1077.8	899.3	704.1	532.2	384.1	262.6	165.7	96.0
-12.5°	1736.6	1311.2	1166.7	1054.0	874.1	684.0	516.5	372.6	254.4	160.4	93.6
-15°	1596.9	1271.3	1152.6	1025.1	843.5	659.5	497.4	358.5	244.4	154.0	90.6
-17.5°	1433.8	1224.6	1136.1	991.2	807.7	630.9	475.0	342.0	232.6	146.4	87.2
-20°	1355.3	1188.6	1113.1	952.6	766.7	598.0	449.3	323.1	219.1	137.7	83.2



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CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
-22.5°	1290.9	1165.7	1065.9	903.6	723.1	561.2	420.5	301.9	204.0	127.9	78.7
-25°	1220.2	1140.5	1013.9	848.2	678.4	525.9	391.5	278.4	187.2	117.0	73.7
-27.5°	1177.8	1103.8	957.3	787.7	629.6	487.4	362.9	257.5	170.5	105.1	68.3
-30°	1146.1	1037.9	888.7	724.7	576.9	445.8	331.9	235.2	155.9	96.0	62.4
-32.5°	1102.0	967.6	813.1	663.2	525.9	401.8	298.7	211.2	140.1	88.7	57.5
-35°	1022.1	885.0	733.9	598.0	474.0	362.9	266.1	185.6	123.3	80.9	52.8
-37.5°	937.2	794.2	659.5	533.4	419.2	321.7	236.0	162.9	105.5	72.6	47.9
-40°	835.6	704.1	581.7	471.0	369.4	278.4	204.4	141.9	93.2	63.9	42.6
-42.5°	731.1	617.0	508.6	405.8	320.0	241.8	172.3	119.9	82.8	56.6	37.1
-45°	634.9	531.3	435.7	350.1	270.3	204.0	146.9	98.5	71.9	50.0	32.4
-47.5°	538.9	450.7	368.3	292.6	227.6	167.5	120.6	86.0	60.7	43.1	29.0
-50°	450.7	374.4	304.6	242.0	183.5	137.7	96.6	72.9	52.6	35.9	25.6
-52.5°	368.3	304.6	246.8	193.0	148.0	106.9	81.8	59.9	44.3	30.8	22.0
-55°	292.6	242.0	193.0	151.5	113.8	87.2	66.5	50.3	35.7	26.6	18.5
-57.5°	227.6	183.5	148.0	113.8	88.9	70.1	54.0	40.5	29.9	22.2	16.9
-60°	167.5	137.7	106.9	87.2	70.1	55.2	42.9	31.9	24.9	18.3	15.2
-62.5°	120.6	96.6	81.8	66.5	54.0	42.9	32.6	26.2	19.8	16.3	13.5
-65°	86.0	72.9	59.9	50.3	40.5	31.9	26.2	20.4	16.9	14.3	11.8
-67.5°	60.7	52.6	44.3	35.7	29.9	24.9	19.8	16.9	14.6	12.3	10.5
-70°	43.1	35.9	30.8	26.6	22.2	18.3	16.3	14.3	12.3	10.7	9.2
-72.5°	29.0	25.6	22.0	18.5	16.9	15.2	13.5	11.8	10.5	9.2	7.9
-75°	19.1	17.6	16.3	14.9	13.5	12.1	11.0	9.9	8.8	7.6	6.7
-77.5°	14.6	13.5	12.4	11.5	10.7	9.8	8.9	8.0	7.1	6.4	5.6
-80°	10.8	10.1	9.5	8.8	8.2	7.5	6.9	6.3	5.7	5.1	4.4
-82.5°	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.7	4.3	3.8	3.3
-85°	5.0	4.8	4.5	4.3	4.0	3.7	3.4	3.1	2.8	2.5	2.2
-87.5°	2.5	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.4	1.3	1.1
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.8	0.6	0.5	0.3	0.2	0.0
85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
77.5°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
75°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
72.5°	6.7	5.6	4.4	3.3	2.2	1.1	0.0
70°	7.6	6.4	5.1	3.8	2.5	1.3	0.0
67.5°	8.8	7.1	5.7	4.3	2.8	1.4	0.0
65°	9.9	8.0	6.3	4.7	3.1	1.6	0.0
62.5°	11.0	8.9	6.9	5.2	3.4	1.7	0.0
60°	12.1	9.8	7.5	5.6	3.7	1.8	0.0
57.5°	13.5	10.7	8.2	6.0	4.0	2.0	0.0
55°	14.9	11.5	8.8	6.4	4.3	2.1	0.0
52.5°	16.3	12.4	9.5	6.8	4.5	2.3	0.0
50°	17.6	13.5	10.1	7.2	4.8	2.4	0.0
47.5°	19.1	14.6	10.8	7.6	5.0	2.5	0.0
45°	22.0	15.6	11.4	8.1	5.3	2.6	0.0
42.5°	24.7	16.6	11.9	8.5	5.5	2.7	0.0
40°	27.3	17.5	12.6	8.9	5.7	2.8	0.0
37.5°	29.8	18.4	13.3	9.3	5.9	2.9	0.0
35°	32.1	20.0	14.0	9.6	6.1	3.0	0.0
32.5°	34.9	21.8	14.6	10.0	6.3	3.1	0.0
30°	38.6	23.5	15.2	10.3	6.5	3.2	0.0
27.5°	42.1	25.1	15.7	10.6	6.6	3.3	0.0
25°	45.3	26.6	16.2	10.9	6.8	3.4	0.0
22.5°	48.2	27.9	16.7	11.1	6.9	3.4	0.0
20°	50.8	29.1	17.1	11.3	7.0	3.5	0.0
17.5°	53.2	30.2	17.5	11.5	7.1	3.5	0.0
15°	55.2	31.1	17.8	11.7	7.2	3.6	0.0
12.5°	56.9	31.9	18.1	11.9	7.3	3.6	0.0
10°	58.4	32.5	18.3	12.0	7.4	3.6	0.0
7.5°	59.5	33.0	18.5	12.1	7.4	3.7	0.0
5°	60.3	33.4	18.6	12.1	7.5	3.7	0.0
2.5°	60.7	33.6	18.7	12.2	7.5	3.7	0.0
0°	60.9	33.7	18.7	12.2	7.5	3.7	0.0
-2.5°	60.7	33.6	18.7	12.2	7.5	3.7	0.0
-5°	60.3	33.4	18.6	12.1	7.5	3.7	0.0
-7.5°	59.5	33.0	18.5	12.1	7.4	3.7	0.0
-10°	58.4	32.5	18.3	12.0	7.4	3.6	0.0
-12.5°	56.9	31.9	18.1	11.9	7.3	3.6	0.0
-15°	55.2	31.1	17.8	11.7	7.2	3.6	0.0
-17.5°	53.2	30.2	17.5	11.5	7.1	3.5	0.0
-20°	50.8	29.1	17.1	11.3	7.0	3.5	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	48.2	27.9	16.7	11.1	6.9	3.4	0.0
-25°	45.3	26.6	16.2	10.9	6.8	3.4	0.0
-27.5°	42.1	25.1	15.7	10.6	6.6	3.3	0.0
-30°	38.6	23.5	15.2	10.3	6.5	3.2	0.0
-32.5°	34.9	21.8	14.6	10.0	6.3	3.1	0.0
-35°	32.1	20.0	14.0	9.6	6.1	3.0	0.0
-37.5°	29.8	18.4	13.3	9.3	5.9	2.9	0.0
-40°	27.3	17.5	12.6	8.9	5.7	2.8	0.0
-42.5°	24.7	16.6	11.9	8.5	5.5	2.7	0.0
-45°	22.0	15.6	11.4	8.1	5.3	2.6	0.0
-47.5°	19.1	14.6	10.8	7.6	5.0	2.5	0.0
-50°	17.6	13.5	10.1	7.2	4.8	2.4	0.0
-52.5°	16.3	12.4	9.5	6.8	4.5	2.3	0.0
-55°	14.9	11.5	8.8	6.4	4.3	2.1	0.0
-57.5°	13.5	10.7	8.2	6.0	4.0	2.0	0.0
-60°	12.1	9.8	7.5	5.6	3.7	1.8	0.0
-62.5°	11.0	8.9	6.9	5.2	3.4	1.7	0.0
-65°	9.9	8.0	6.3	4.7	3.1	1.6	0.0
-67.5°	8.8	7.1	5.7	4.3	2.8	1.4	0.0
-70°	7.6	6.4	5.1	3.8	2.5	1.3	0.0
-72.5°	6.7	5.6	4.4	3.3	2.2	1.1	0.0
-75°	5.7	4.8	3.8	2.9	1.9	1.0	0.0
-77.5°	4.8	4.0	3.2	2.4	1.6	0.8	0.0
-80°	3.8	3.2	2.6	1.9	1.3	0.6	0.0
-82.5°	2.9	2.4	1.9	1.4	1.0	0.5	0.0
-85°	1.9	1.6	1.3	1.0	0.6	0.3	0.0
-87.5°	1.0	0.8	0.6	0.5	0.3	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





Horizontal Angle (degrees)



Horizontal Angle (degrees)

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

