

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: EPHEBUS

Report Number: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS16-1200R-57-70-1S**

Issue Date: 8/3/2022

Test Information

Test Method: LM-79-08
Report Number: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-700-1)
Test Lab: INNOVATION CENTER
Issue Date: 8/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS16-1200R-57-70-1S
Description: EPHESUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 70 CRI LEDS AND 1S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

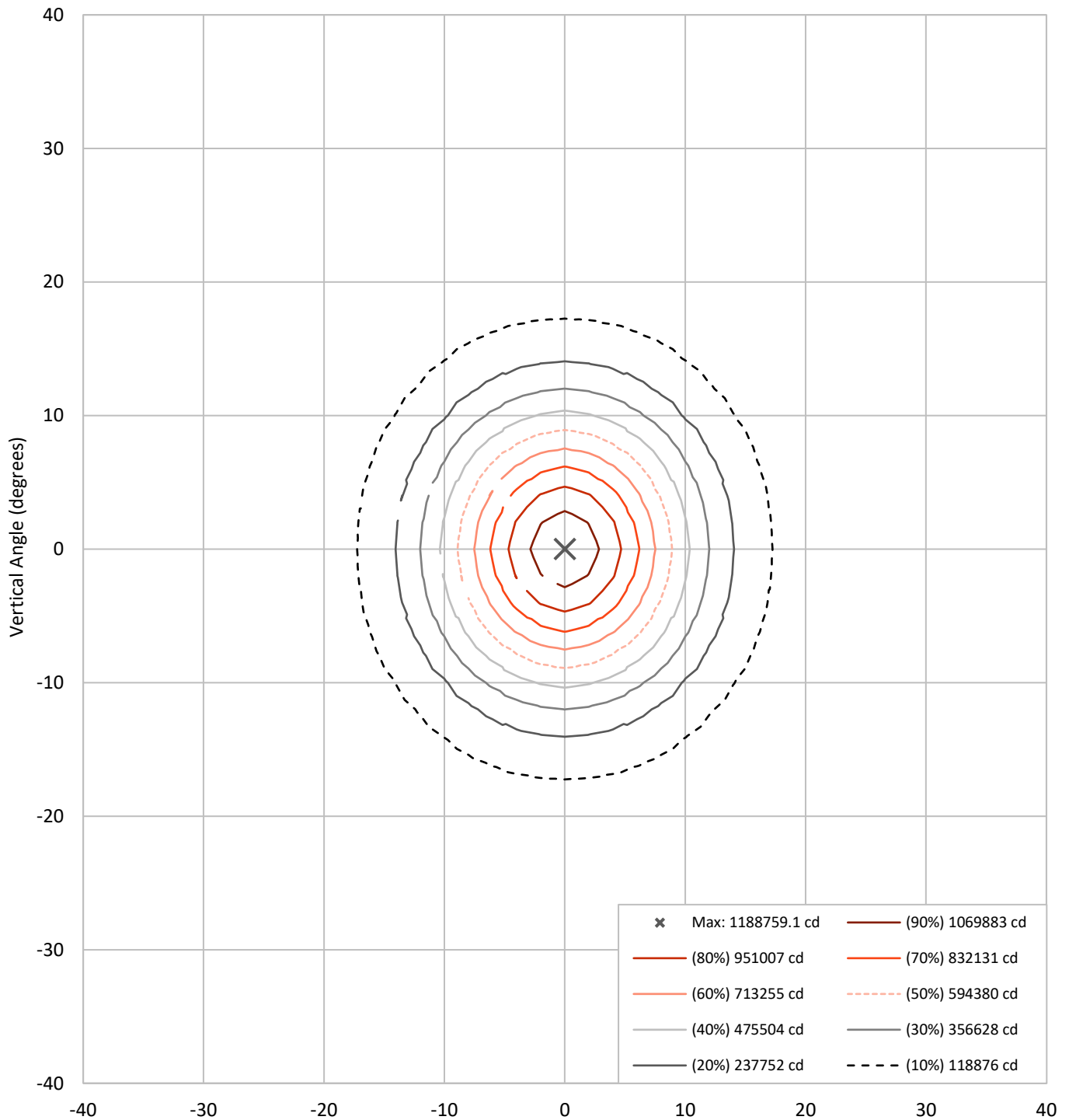
Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	158828.2 lumens	Max Intensity:	1188759.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.9 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	17.8°H x 17.8°V	Field Angle (10%):	34.3°H x 34.3°V
Beam Lumens:	53520.8 lumens	Field Lumens:	121414.1 lumens
Beam Efficiency:	33.7%	Field Efficiency:	76.4%

Input Watts (W): 1335.575
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





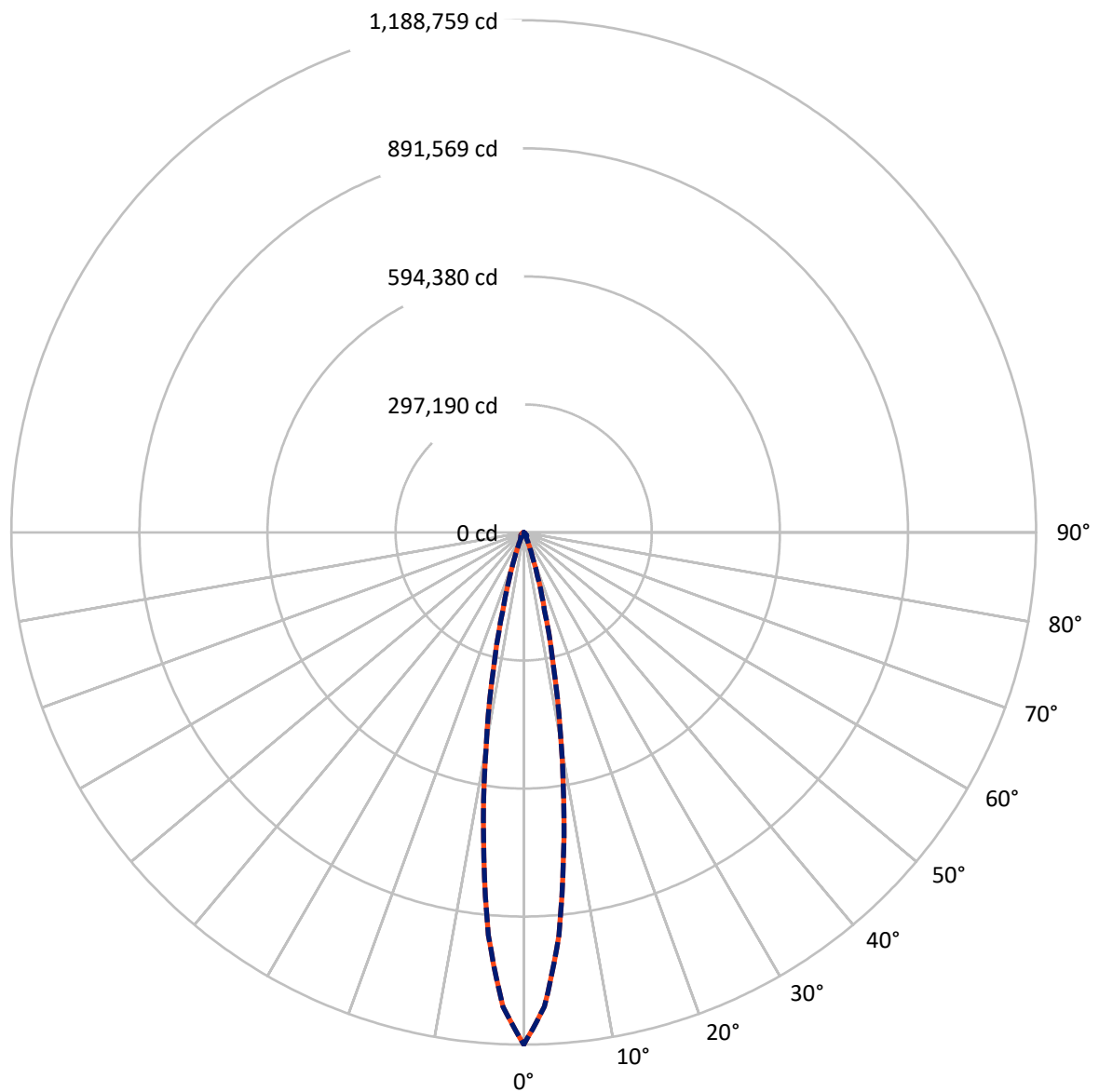
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Lumen Table

90	0.3	1.8	6.2	15.0	19.6	15.0	6.2	1.8	0.3										
80	0.3	1.8	6.2	15.0	19.6	15.0	6.2	1.8	0.3										
70	0.8	0.9	3.6	10.5	20.7	31.8	41.1	46.3	46.3	41.1	31.8	20.7	10.5	3.6	0.9	0.8			
60		2.7	12.1	29.5	51.4	72.1	87.1	95.1	95.1	87.1	72.1	51.4	29.5	12.1	2.7				
50	2.0	6.5	24.1	51.9	81.2	135.5	208.5	249.3	249.3	208.5	135.5	81.2	51.9	24.1	6.5	2.0			
40		11.0	36.4	70.3	160.5	273.4	314.5	329.1	329.1	314.5	273.4	160.5	70.3	36.4	11.0				
30	4.3	15.3	46.1	106.9	247.4	301.1	389.2	638.2	638.2	389.2	301.1	247.4	106.9	46.1	15.3	4.3			
20		18.6	52.2	154.7	266.8	366.0	1647.0	5448.4	5448.4	1647.0	366.0	266.8	154.7	52.2	18.6				
10	5.4	20.3	55.2	179.0	270.7	586.2	5314.4	21083.3	21083.3	5314.4	586.2	270.7	179.0	55.2	20.3	5.4			
0		20.3	55.2	179.0	270.7	586.2	5314.4	21083.3	21083.3	5314.4	586.2	270.7	179.0	55.2	20.3				
-10	4.3	18.6	52.2	154.7	266.8	366.0	1647.0	5448.4	5448.4	1647.0	366.0	266.8	154.7	52.2	18.6	4.3			
-20		15.3	46.1	106.9	247.4	301.1	389.2	638.2	638.2	389.2	301.1	247.4	106.9	46.1	15.3				
-30	2.0	11.0	36.4	70.3	160.5	273.4	314.5	329.1	329.1	314.5	273.4	160.5	70.3	36.4	11.0	2.0			
-40		6.5	24.1	51.9	81.2	135.5	208.5	249.3	249.3	208.5	135.5	81.2	51.9	24.1	6.5				
-50	0.8	2.7	12.1	29.5	51.4	72.1	87.1	95.1	95.1	87.1	72.1	51.4	29.5	12.1	2.7	0.8			
-60		0.9	3.6	10.5	20.7	31.8	41.1	46.3	46.3	41.1	31.8	20.7	10.5	3.6	0.9				
-70	0.3	0.9	3.6	10.5	20.7	31.8	41.1	46.3	46.3	41.1	31.8	20.7	10.5	3.6	0.9	0.3			
-80		0.3	1.8	6.2	15.0	19.6	15.0	6.2	1.8	0.3									
-90	0.3	1.8	6.2	15.0	19.6	15.0	6.2	1.8	0.3										

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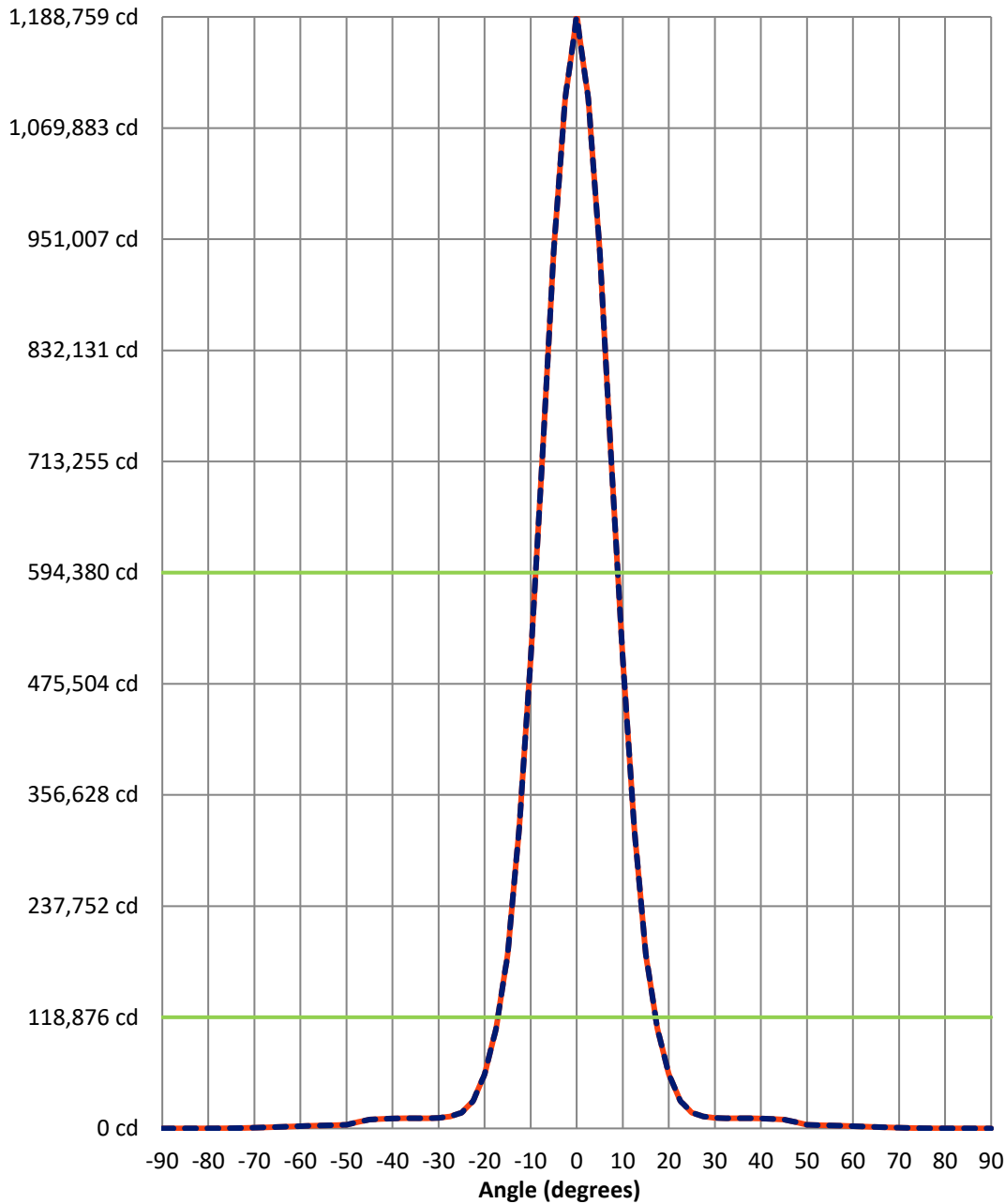
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 17.8°
 V Angle: 17.8°
 Lumens: 53520.8
 Efficiency: 33.7%

Field:
 H Angle: 34.3°
 V Angle: 34.3°
 Lumens: 121414.1
 Efficiency: 76.4%

Spill:
 Lumens: 37414.1
 Efficiency: 23.6%

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



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.5	0.9	1.4	1.9	2.4	2.8	3.3	3.7	4.2	4.6
85°	0.0	0.9	1.9	2.8	3.8	4.7	5.6	6.5	7.4	8.3	9.2
82.5°	0.0	1.4	2.8	4.3	5.7	7.1	8.4	9.8	11.4	14.1	16.6
80°	0.0	1.9	3.8	5.7	7.5	9.4	11.6	15.2	18.8	22.3	25.7
77.5°	0.0	2.4	4.7	7.1	9.4	12.5	17.1	21.6	26.0	30.4	33.7
75°	0.0	2.8	5.6	8.4	11.6	17.1	22.5	27.9	32.9	35.6	38.2
72.5°	0.0	3.3	6.5	9.8	15.2	21.6	27.9	33.4	36.5	39.6	42.6
70°	0.0	3.7	7.4	11.4	18.8	26.0	32.9	36.5	40.1	43.6	47.0
67.5°	0.0	4.2	8.3	14.1	22.3	30.4	35.6	39.6	43.6	47.5	51.3
65°	0.0	4.6	9.2	16.6	25.7	33.7	38.2	42.6	47.0	51.3	59.3
62.5°	0.0	5.0	10.1	19.2	29.1	35.8	40.7	45.6	50.4	57.4	76.1
60°	0.0	5.4	10.9	21.7	32.4	37.9	43.2	48.5	53.6	72.2	92.6
57.5°	0.0	5.9	12.5	24.1	34.1	39.9	45.6	51.3	64.6	86.8	130.4
55°	0.0	6.3	14.1	26.5	35.7	41.9	48.0	54.0	77.2	107.2	177.5
52.5°	0.0	6.6	15.6	28.8	37.3	43.8	50.3	63.8	89.4	148.4	223.3
50°	0.0	7.0	17.1	31.0	38.7	45.6	52.5	74.2	108.2	188.5	301.0
47.5°	0.0	7.4	18.5	32.9	40.2	47.4	55.5	84.3	142.6	227.2	380.0
45°	0.0	7.7	19.9	33.9	41.6	49.1	63.8	93.9	175.7	295.0	456.3
42.5°	0.0	8.0	21.2	34.9	42.9	50.8	71.7	113.9	207.5	360.8	543.8
40°	0.0	8.3	22.4	35.8	44.1	52.3	79.3	140.4	246.2	423.7	629.9
37.5°	0.0	8.6	23.6	36.7	45.3	53.8	86.5	165.7	299.2	487.4	712.0
35°	0.0	8.9	24.7	37.6	46.4	58.0	93.3	189.5	349.5	557.1	796.6
32.5°	0.0	9.2	25.8	38.4	47.5	63.3	103.4	212.0	396.8	622.9	886.4
30°	0.0	9.4	26.8	39.1	48.5	68.3	121.4	237.2	441.1	684.4	970.7
27.5°	0.0	9.7	27.7	39.8	49.4	72.9	138.0	273.0	485.8	741.7	1049.1
25°	0.0	9.9	28.5	40.4	50.2	77.1	153.4	306.0	532.4	802.2	1122.0
22.5°	0.0	10.1	29.3	41.0	51.0	81.0	167.4	336.1	574.9	861.1	1198.1
20°	0.0	10.2	30.0	41.5	51.7	84.5	179.9	363.2	613.2	914.3	1266.9
17.5°	0.0	10.4	30.6	42.0	52.3	87.6	191.1	387.3	647.3	961.6	1328.0
15°	0.0	10.5	31.1	42.4	52.8	90.3	200.9	408.3	677.0	1002.9	1381.4
12.5°	0.0	10.6	31.6	42.7	53.3	92.6	209.1	426.1	702.2	1038.0	1426.8
10°	0.0	10.7	31.9	43.0	53.6	94.4	216.0	440.8	723.0	1066.9	1464.2
7.5°	0.0	10.8	32.2	43.2	53.9	95.9	221.3	452.2	739.2	1089.4	1493.4
5°	0.0	10.9	32.4	43.4	54.1	97.0	225.1	460.4	750.8	1105.6	1514.3
2.5°	0.0	10.9	32.6	43.5	54.3	97.6	227.3	465.4	757.8	1115.3	1526.9
0°	0.0	10.9	32.6	43.5	54.3	97.6	227.3	465.4	757.8	1115.3	1526.9
-2.5°	0.0	10.9	32.6	43.5	54.3	97.6	227.3	465.4	757.8	1115.3	1526.9
-5°	0.0	10.9	32.4	43.4	54.1	97.0	225.1	460.4	750.8	1105.6	1514.3
-7.5°	0.0	10.8	32.2	43.2	53.9	95.9	221.3	452.2	739.2	1089.4	1493.4
-10°	0.0	10.7	31.9	43.0	53.6	94.4	216.0	440.8	723.0	1066.9	1464.2
-12.5°	0.0	10.6	31.6	42.7	53.3	92.6	209.1	426.1	702.2	1038.0	1426.8
-15°	0.0	10.5	31.1	42.4	52.8	90.3	200.9	408.3	677.0	1002.9	1381.4
-17.5°	0.0	10.4	30.6	42.0	52.3	87.6	191.1	387.3	647.3	961.6	1328.0
-20°	0.0	10.2	30.0	41.5	51.7	84.5	179.9	363.2	613.2	914.3	1266.9



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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	10.1	29.3	41.0	51.0	81.0	167.4	336.1	574.9	861.1	1198.1
-25°	0.0	9.9	28.5	40.4	50.2	77.1	153.4	306.0	532.4	802.2	1122.0
-27.5°	0.0	9.7	27.7	39.8	49.4	72.9	138.0	273.0	485.8	741.7	1049.1
-30°	0.0	9.4	26.8	39.1	48.5	68.3	121.4	237.2	441.1	684.4	970.7
-32.5°	0.0	9.2	25.8	38.4	47.5	63.3	103.4	212.0	396.8	622.9	886.4
-35°	0.0	8.9	24.7	37.6	46.4	58.0	93.3	189.5	349.5	557.1	796.6
-37.5°	0.0	8.6	23.6	36.7	45.3	53.8	86.5	165.7	299.2	487.4	712.0
-40°	0.0	8.3	22.4	35.8	44.1	52.3	79.3	140.4	246.2	423.7	629.9
-42.5°	0.0	8.0	21.2	34.9	42.9	50.8	71.7	113.9	207.5	360.8	543.8
-45°	0.0	7.7	19.9	33.9	41.6	49.1	63.8	93.9	175.7	295.0	456.3
-47.5°	0.0	7.4	18.5	32.9	40.2	47.4	55.5	84.3	142.6	227.2	380.0
-50°	0.0	7.0	17.1	31.0	38.7	45.6	52.5	74.2	108.2	188.5	301.0
-52.5°	0.0	6.6	15.6	28.8	37.3	43.8	50.3	63.8	89.4	148.4	223.3
-55°	0.0	6.3	14.1	26.5	35.7	41.9	48.0	54.0	77.2	107.2	177.5
-57.5°	0.0	5.9	12.5	24.1	34.1	39.9	45.6	51.3	64.6	86.8	130.4
-60°	0.0	5.4	10.9	21.7	32.4	37.9	43.2	48.5	53.6	72.2	92.6
-62.5°	0.0	5.0	10.1	19.2	29.1	35.8	40.7	45.6	50.4	57.4	76.1
-65°	0.0	4.6	9.2	16.6	25.7	33.7	38.2	42.6	47.0	51.3	59.3
-67.5°	0.0	4.2	8.3	14.1	22.3	30.4	35.6	39.6	43.6	47.5	51.3
-70°	0.0	3.7	7.4	11.4	18.8	26.0	32.9	36.5	40.1	43.6	47.0
-72.5°	0.0	3.3	6.5	9.8	15.2	21.6	27.9	33.4	36.5	39.6	42.6
-75°	0.0	2.8	5.6	8.4	11.6	17.1	22.5	27.9	32.9	35.6	38.2
-77.5°	0.0	2.4	4.7	7.1	9.4	12.5	17.1	21.6	26.0	30.4	33.7
-80°	0.0	1.9	3.8	5.7	7.5	9.4	11.6	15.2	18.8	22.3	25.7
-82.5°	0.0	1.4	2.8	4.3	5.7	7.1	8.4	9.8	11.4	14.1	16.6
-85°	0.0	0.9	1.9	2.8	3.8	4.7	5.6	6.5	7.4	8.3	9.2
-87.5°	0.0	0.5	0.9	1.4	1.9	2.4	2.8	3.3	3.7	4.2	4.6
-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°	5.0	5.4	5.9	6.3	6.6	7.0	7.4	7.7	8.0	8.3	8.6
85°	10.1	10.9	12.5	14.1	15.6	17.1	18.5	19.9	21.2	22.4	23.6
82.5°	19.2	21.7	24.1	26.5	28.8	31.0	32.9	33.9	34.9	35.8	36.7
80°	29.1	32.4	34.1	35.7	37.3	38.7	40.2	41.6	42.9	44.1	45.3
77.5°	35.8	37.9	39.9	41.9	43.8	45.6	47.4	49.1	50.8	52.3	53.8
75°	40.7	43.2	45.6	48.0	50.3	52.5	55.5	63.8	71.7	79.3	86.5
72.5°	45.6	48.5	51.3	54.0	63.8	74.2	84.3	93.9	113.9	140.4	165.7
70°	50.4	53.6	64.6	77.2	89.4	108.2	142.6	175.7	207.5	246.2	299.2
67.5°	57.4	72.2	86.8	107.2	148.4	188.5	227.2	295.0	360.8	423.7	487.4
65°	76.1	92.6	130.4	177.5	223.3	301.0	380.0	456.3	543.8	629.9	712.0
62.5°	94.5	142.0	195.0	262.3	354.8	444.6	546.4	649.5	748.8	862.6	973.6
60°	142.0	200.9	283.9	387.3	492.9	613.2	729.9	861.1	994.0	1122.0	1262.2
57.5°	195.0	283.9	398.2	519.7	653.7	789.4	944.2	1094.0	1256.6	1416.4	1571.2
55°	262.3	387.3	519.7	667.2	822.7	994.5	1167.9	1354.1	1534.0	1716.1	1890.4
52.5°	354.8	492.9	653.7	822.7	1011.3	1206.9	1413.1	1617.4	1821.0	2019.7	2217.2
50°	444.6	613.2	789.4	994.5	1206.9	1432.8	1659.4	1884.5	2109.4	2330.2	2542.3
47.5°	546.4	729.9	944.2	1167.9	1413.1	1659.4	1905.8	2154.6	2398.7	2634.5	2861.4
45°	649.5	861.1	1094.0	1354.1	1617.4	1884.5	2154.6	2421.7	2681.0	2913.9	3075.2
42.5°	748.8	994.0	1256.6	1534.0	1821.0	2109.4	2398.7	2681.0	2929.7	3107.3	3271.8
40°	862.6	1122.0	1416.4	1716.1	2019.7	2330.2	2634.5	2913.9	3107.3	3287.0	3455.8
37.5°	973.6	1262.2	1571.2	1890.4	2217.2	2542.3	2861.4	3075.2	3271.8	3455.8	3719.3
35°	1079.1	1395.5	1724.4	2061.2	2405.6	2744.9	3011.7	3226.5	3424.9	3695.6	4518.9
32.5°	1187.7	1521.5	1869.3	2226.6	2584.4	2917.6	3149.6	3363.6	3624.8	4179.7	6257.2
30°	1295.3	1645.6	2007.6	2382.3	2753.1	3039.0	3273.1	3508.4	3833.4	5738.4	7784.6
27.5°	1395.5	1761.8	2141.2	2527.8	2899.9	3152.8	3386.9	3691.9	4885.9	7167.6	9162.8
25°	1488.0	1869.3	2264.9	2662.7	2997.6	3253.1	3507.4	3863.2	6174.3	8377.5	9709.8
22.5°	1574.9	1967.8	2378.3	2786.5	3087.3	3343.4	3654.0	4823.8	7302.8	9461.3	10022.6
20°	1655.4	2061.2	2480.9	2891.6	3168.8	3425.5	3787.4	5833.7	8257.1	9728.1	10264.3
17.5°	1727.1	2144.4	2572.4	2958.4	3237.3	3516.5	4023.8	6740.7	9116.0	9968.9	10461.5
15°	1789.7	2217.2	2652.4	3016.9	3296.6	3613.3	4760.0	7453.8	9558.2	10167.0	10633.9
12.5°	1843.0	2279.2	2720.6	3066.8	3347.2	3696.1	5390.7	8053.8	9727.1	10306.1	10710.9
10°	1886.9	2330.2	2776.9	3107.9	3389.0	3764.5	5912.3	8550.7	9867.3	10421.7	10775.1
7.5°	1921.2	2370.1	2820.8	3140.1	3421.7	3818.1	6321.5	8940.9	9977.5	10512.7	10825.8
5°	1945.8	2398.7	2852.4	3163.2	3445.2	3856.7	6615.7	9221.7	10056.9	10578.4	10862.4
2.5°	1960.6	2416.0	2871.4	3177.2	3459.4	3879.9	6793.0	9391.0	10104.8	10618.0	10884.5
0°	1965.5	2421.7	2877.7	3181.8	3464.1	3887.6	6852.2	9447.6	10120.8	10631.3	10891.9
-2.5°	1960.6	2416.0	2871.4	3177.2	3459.4	3879.9	6793.0	9391.0	10104.8	10618.0	10884.5
-5°	1945.8	2398.7	2852.4	3163.2	3445.2	3856.7	6615.7	9221.7	10056.9	10578.4	10862.4
-7.5°	1921.2	2370.1	2820.8	3140.1	3421.7	3818.1	6321.5	8940.9	9977.5	10512.7	10825.8
-10°	1886.9	2330.2	2776.9	3107.9	3389.0	3764.5	5912.3	8550.7	9867.3	10421.7	10775.1
-12.5°	1843.0	2279.2	2720.6	3066.8	3347.2	3696.1	5390.7	8053.8	9727.1	10306.1	10710.9
-15°	1789.7	2217.2	2652.4	3016.9	3296.6	3613.3	4760.0	7453.8	9558.2	10167.0	10633.9
-17.5°	1727.1	2144.4	2572.4	2958.4	3237.3	3516.5	4023.8	6740.7	9116.0	9968.9	10461.5
-20°	1655.4	2061.2	2480.9	2891.6	3168.8	3425.5	3787.4	5833.7	8257.1	9728.1	10264.3



REPORT NUMBER: P601482 (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°	1574.9	1967.8	2378.3	2786.5	3087.3	3343.4	3654.0	4823.8	7302.8	9461.3	10022.6
-25°	1488.0	1869.3	2264.9	2662.7	2997.6	3253.1	3507.4	3863.2	6174.3	8377.5	9709.8
-27.5°	1395.5	1761.8	2141.2	2527.8	2899.9	3152.8	3386.9	3691.9	4885.9	7167.6	9162.8
-30°	1295.3	1645.6	2007.6	2382.3	2753.1	3039.0	3273.1	3508.4	3833.4	5738.4	7784.6
-32.5°	1187.7	1521.5	1869.3	2226.6	2584.4	2917.6	3149.6	3363.6	3624.8	4179.7	6257.2
-35°	1079.1	1395.5	1724.4	2061.2	2405.6	2744.9	3011.7	3226.5	3424.9	3695.6	4518.9
-37.5°	973.6	1262.2	1571.2	1890.4	2217.2	2542.3	2861.4	3075.2	3271.8	3455.8	3719.3
-40°	862.6	1122.0	1416.4	1716.1	2019.7	2330.2	2634.5	2913.9	3107.3	3287.0	3455.8
-42.5°	748.8	994.0	1256.6	1534.0	1821.0	2109.4	2398.7	2681.0	2929.7	3107.3	3271.8
-45°	649.5	861.1	1094.0	1354.1	1617.4	1884.5	2154.6	2421.7	2681.0	2913.9	3075.2
-47.5°	546.4	729.9	944.2	1167.9	1413.1	1659.4	1905.8	2154.6	2398.7	2634.5	2861.4
-50°	444.6	613.2	789.4	994.5	1206.9	1432.8	1659.4	1884.5	2109.4	2330.2	2542.3
-52.5°	354.8	492.9	653.7	822.7	1011.3	1206.9	1413.1	1617.4	1821.0	2019.7	2217.2
-55°	262.3	387.3	519.7	667.2	822.7	994.5	1167.9	1354.1	1534.0	1716.1	1890.4
-57.5°	195.0	283.9	398.2	519.7	653.7	789.4	944.2	1094.0	1256.6	1416.4	1571.2
-60°	142.0	200.9	283.9	387.3	492.9	613.2	729.9	861.1	994.0	1122.0	1262.2
-62.5°	94.5	142.0	195.0	262.3	354.8	444.6	546.4	649.5	748.8	862.6	973.6
-65°	76.1	92.6	130.4	177.5	223.3	301.0	380.0	456.3	543.8	629.9	712.0
-67.5°	57.4	72.2	86.8	107.2	148.4	188.5	227.2	295.0	360.8	423.7	487.4
-70°	50.4	53.6	64.6	77.2	89.4	108.2	142.6	175.7	207.5	246.2	299.2
-72.5°	45.6	48.5	51.3	54.0	63.8	74.2	84.3	93.9	113.9	140.4	165.7
-75°	40.7	43.2	45.6	48.0	50.3	52.5	55.5	63.8	71.7	79.3	86.5
-77.5°	35.8	37.9	39.9	41.9	43.8	45.6	47.4	49.1	50.8	52.3	53.8
-80°	29.1	32.4	34.1	35.7	37.3	38.7	40.2	41.6	42.9	44.1	45.3
-82.5°	19.2	21.7	24.1	26.5	28.8	31.0	32.9	33.9	34.9	35.8	36.7
-85°	10.1	10.9	12.5	14.1	15.6	17.1	18.5	19.9	21.2	22.4	23.6
-87.5°	5.0	5.4	5.9	6.3	6.6	7.0	7.4	7.7	8.0	8.3	8.6
-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: P601482 (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°	8.9	9.2	9.4	9.7	9.9	10.1	10.2	10.4	10.5	10.6	10.7
85°	24.7	25.8	26.8	27.7	28.5	29.3	30.0	30.6	31.1	31.6	31.9
82.5°	37.6	38.4	39.1	39.8	40.4	41.0	41.5	42.0	42.4	42.7	43.0
80°	46.4	47.5	48.5	49.4	50.2	51.0	51.7	52.3	52.8	53.3	53.6
77.5°	58.0	63.3	68.3	72.9	77.1	81.0	84.5	87.6	90.3	92.6	94.4
75°	93.3	103.4	121.4	138.0	153.4	167.4	179.9	191.1	200.9	209.1	216.0
72.5°	189.5	212.0	237.2	273.0	306.0	336.1	363.2	387.3	408.3	426.1	440.8
70°	349.5	396.8	441.1	485.8	532.4	574.9	613.2	647.3	677.0	702.2	723.0
67.5°	557.1	622.9	684.4	741.7	802.2	861.1	914.3	961.6	1002.9	1038.0	1066.9
65°	796.6	886.4	970.7	1049.1	1122.0	1198.1	1266.9	1328.0	1381.4	1426.8	1464.2
62.5°	1079.1	1187.7	1295.3	1395.5	1488.0	1574.9	1655.4	1727.1	1789.7	1843.0	1886.9
60°	1395.5	1521.5	1645.6	1761.8	1869.3	1967.8	2061.2	2144.4	2217.2	2279.2	2330.2
57.5°	1724.4	1869.3	2007.6	2141.2	2264.9	2378.3	2480.9	2572.4	2652.4	2720.6	2776.9
55°	2061.2	2226.6	2382.3	2527.8	2662.7	2786.5	2891.6	2958.4	3016.9	3066.8	3107.9
52.5°	2405.6	2584.4	2753.1	2899.9	2997.6	3087.3	3168.8	3237.3	3296.6	3347.2	3389.0
50°	2744.9	2917.6	3039.0	3152.8	3253.1	3343.4	3425.5	3516.5	3613.3	3696.1	3764.5
47.5°	3011.7	3149.6	3273.1	3386.9	3507.4	3654.0	3787.4	4023.8	4760.0	5390.7	5912.3
45°	3226.5	3363.6	3508.4	3691.9	3863.2	4823.8	5833.7	6740.7	7453.8	8053.8	8550.7
42.5°	3424.9	3624.8	3833.4	4885.9	6174.3	7302.8	8257.1	9116.0	9558.2	9727.1	9867.3
40°	3695.6	4179.7	5738.4	7167.6	8377.5	9461.3	9728.1	9968.9	10167.0	10306.1	10421.7
37.5°	4518.9	6257.2	7784.6	9162.8	9709.8	10022.6	10264.3	10461.5	10633.9	10710.9	10775.1
35°	6431.3	8096.6	9497.9	9878.9	10210.0	10464.4	10665.9	10774.5	10871.2	10891.9	10891.9
32.5°	8096.6	9539.6	9964.6	10309.9	10600.9	10755.0	10883.8	10891.9	10891.9	10880.8	10861.7
30°	9497.9	9964.6	10343.5	10651.1	10809.6	10891.9	10891.9	10874.1	10845.7	10864.0	10996.0
27.5°	9878.9	10309.9	10651.1	10827.9	10891.9	10891.0	10853.8	10872.1	11067.4	11238.6	11777.3
25°	10210.0	10600.9	10809.6	10891.9	10886.1	10843.5	10974.0	11208.0	11915.1	12614.8	13908.9
22.5°	10464.4	10755.0	10891.9	10891.0	10843.5	11008.4	11391.0	12335.9	13880.1	15899.8	19282.5
20°	10665.9	10883.8	10891.9	10853.8	10974.0	11391.0	12478.6	14670.9	17779.7	24667.2	32092.4
17.5°	10774.5	10891.9	10874.1	10872.1	11208.0	12335.9	14670.9	19096.2	27458.8	42114.2	57122.7
15°	10871.2	10891.9	10845.7	11067.4	11915.1	13880.1	17779.7	27458.8	45551.7	69161.8	98075.8
12.5°	10891.9	10880.8	10864.0	11238.6	12614.8	15899.8	24667.2	42114.2	69161.8	105098.4	156081.3
10°	10891.9	10861.7	10996.0	11777.3	13908.9	19282.5	32092.4	57122.7	98075.8	156081.3	226895.9
7.5°	10891.9	10846.6	11101.0	12209.5	15167.3	23624.0	43091.2	77823.3	131548.1	206960.2	322395.6
5°	10891.9	10835.7	11177.4	12524.9	16089.7	26824.8	51262.7	93847.2	161301.5	263188.0	413003.4
2.5°	10891.9	10829.0	11223.8	12716.9	16653.2	28788.4	56305.0	103816.1	180035.1	305248.8	478856.4
0°	10891.9	10826.8	11239.4	12781.4	16842.8	29450.5	58010.5	107203.2	186443.7	320920.1	502373.9
-2.5°	10891.9	10829.0	11223.8	12716.9	16653.2	28788.4	56305.0	103816.1	180035.1	305248.8	478856.4
-5°	10891.9	10835.7	11177.4	12524.9	16089.7	26824.8	51262.7	93847.2	161301.5	263188.0	413003.4
-7.5°	10891.9	10846.6	11101.0	12209.5	15167.3	23624.0	43091.2	77823.3	131548.1	206960.2	322395.6
-10°	10891.9	10861.7	10996.0	11777.3	13908.9	19282.5	32092.4	57122.7	98075.8	156081.3	226895.9
-12.5°	10891.9	10880.8	10864.0	11238.6	12614.8	15899.8	24667.2	42114.2	69161.8	105098.4	156081.3
-15°	10871.2	10891.9	10845.7	11067.4	11915.1	13880.1	17779.7	27458.8	45551.7	69161.8	98075.8
-17.5°	10774.5	10891.9	10874.1	10872.1	11208.0	12335.9	14670.9	19096.2	27458.8	42114.2	57122.7
-20°	10665.9	10883.8	10891.9	10853.8	10974.0	11391.0	12478.6	14670.9	17779.7	24667.2	32092.4



REPORT NUMBER: P601482 (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°	10464.4	10755.0	10891.9	10891.0	10843.5	11008.4	11391.0	12335.9	13880.1	15899.8	19282.5
-25°	10210.0	10600.9	10809.6	10891.9	10886.1	10843.5	10974.0	11208.0	11915.1	12614.8	13908.9
-27.5°	9878.9	10309.9	10651.1	10827.9	10891.9	10891.0	10853.8	10872.1	11067.4	11238.6	11777.3
-30°	9497.9	9964.6	10343.5	10651.1	10809.6	10891.9	10891.9	10874.1	10845.7	10864.0	10996.0
-32.5°	8096.6	9539.6	9964.6	10309.9	10600.9	10755.0	10883.8	10891.9	10891.9	10880.8	10861.7
-35°	6431.3	8096.6	9497.9	9878.9	10210.0	10464.4	10665.9	10774.5	10871.2	10891.9	10891.9
-37.5°	4518.9	6257.2	7784.6	9162.8	9709.8	10022.6	10264.3	10461.5	10633.9	10710.9	10775.1
-40°	3695.6	4179.7	5738.4	7167.6	8377.5	9461.3	9728.1	9968.9	10167.0	10306.1	10421.7
-42.5°	3424.9	3624.8	3833.4	4885.9	6174.3	7302.8	8257.1	9116.0	9558.2	9727.1	9867.3
-45°	3226.5	3363.6	3508.4	3691.9	3863.2	4823.8	5833.7	6740.7	7453.8	8053.8	8550.7
-47.5°	3011.7	3149.6	3273.1	3386.9	3507.4	3654.0	3787.4	4023.8	4760.0	5390.7	5912.3
-50°	2744.9	2917.6	3039.0	3152.8	3253.1	3343.4	3425.5	3516.5	3613.3	3696.1	3764.5
-52.5°	2405.6	2584.4	2753.1	2899.9	2997.6	3087.3	3168.8	3237.3	3296.6	3347.2	3389.0
-55°	2061.2	2226.6	2382.3	2527.8	2662.7	2786.5	2891.6	2958.4	3016.9	3066.8	3107.9
-57.5°	1724.4	1869.3	2007.6	2141.2	2264.9	2378.3	2480.9	2572.4	2652.4	2720.6	2776.9
-60°	1395.5	1521.5	1645.6	1761.8	1869.3	1967.8	2061.2	2144.4	2217.2	2279.2	2330.2
-62.5°	1079.1	1187.7	1295.3	1395.5	1488.0	1574.9	1655.4	1727.1	1789.7	1843.0	1886.9
-65°	796.6	886.4	970.7	1049.1	1122.0	1198.1	1266.9	1328.0	1381.4	1426.8	1464.2
-67.5°	557.1	622.9	684.4	741.7	802.2	861.1	914.3	961.6	1002.9	1038.0	1066.9
-70°	349.5	396.8	441.1	485.8	532.4	574.9	613.2	647.3	677.0	702.2	723.0
-72.5°	189.5	212.0	237.2	273.0	306.0	336.1	363.2	387.3	408.3	426.1	440.8
-75°	93.3	103.4	121.4	138.0	153.4	167.4	179.9	191.1	200.9	209.1	216.0
-77.5°	58.0	63.3	68.3	72.9	77.1	81.0	84.5	87.6	90.3	92.6	94.4
-80°	46.4	47.5	48.5	49.4	50.2	51.0	51.7	52.3	52.8	53.3	53.6
-82.5°	37.6	38.4	39.1	39.8	40.4	41.0	41.5	42.0	42.4	42.7	43.0
-85°	24.7	25.8	26.8	27.7	28.5	29.3	30.0	30.6	31.1	31.6	31.9
-87.5°	8.9	9.2	9.4	9.7	9.9	10.1	10.2	10.4	10.5	10.6	10.7
-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: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-57-70-1S

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°	10.8	10.9	10.9	10.9	10.9	10.9	10.8	10.7	10.6	10.5	10.4
85°	32.2	32.4	32.6	32.6	32.6	32.4	32.2	31.9	31.6	31.1	30.6
82.5°	43.2	43.4	43.5	43.5	43.5	43.4	43.2	43.0	42.7	42.4	42.0
80°	53.9	54.1	54.3	54.3	54.3	54.1	53.9	53.6	53.3	52.8	52.3
77.5°	95.9	97.0	97.6	97.8	97.6	97.0	95.9	94.4	92.6	90.3	87.6
75°	221.3	225.1	227.3	228.1	227.3	225.1	221.3	216.0	209.1	200.9	191.1
72.5°	452.2	460.4	465.4	467.0	465.4	460.4	452.2	440.8	426.1	408.3	387.3
70°	739.2	750.8	757.8	760.1	757.8	750.8	739.2	723.0	702.2	677.0	647.3
67.5°	1089.4	1105.6	1115.3	1118.5	1115.3	1105.6	1089.4	1066.9	1038.0	1002.9	961.6
65°	1493.4	1514.3	1526.9	1531.1	1526.9	1514.3	1493.4	1464.2	1426.8	1381.4	1328.0
62.5°	1921.2	1945.8	1960.6	1965.5	1960.6	1945.8	1921.2	1886.9	1843.0	1789.7	1727.1
60°	2370.1	2398.7	2416.0	2421.7	2416.0	2398.7	2370.1	2330.2	2279.2	2217.2	2144.4
57.5°	2820.8	2852.4	2871.4	2877.7	2871.4	2852.4	2820.8	2776.9	2720.6	2652.4	2572.4
55°	3140.1	3163.2	3177.2	3181.8	3177.2	3163.2	3140.1	3107.9	3066.8	3016.9	2958.4
52.5°	3421.7	3445.2	3459.4	3464.1	3459.4	3445.2	3421.7	3389.0	3347.2	3296.6	3237.3
50°	3818.1	3856.7	3879.9	3887.6	3879.9	3856.7	3818.1	3764.5	3696.1	3613.3	3516.5
47.5°	6321.5	6615.7	6793.0	6852.2	6793.0	6615.7	6321.5	5912.3	5390.7	4760.0	4023.8
45°	8940.9	9221.7	9391.0	9447.6	9391.0	9221.7	8940.9	8550.7	8053.8	7453.8	6740.7
42.5°	9977.5	10056.9	10104.8	10120.8	10104.8	10056.9	9977.5	9867.3	9727.1	9558.2	9116.0
40°	10512.7	10578.4	10618.0	10631.3	10618.0	10578.4	10512.7	10421.7	10306.1	10167.0	9968.9
37.5°	10825.8	10862.4	10884.5	10891.9	10884.5	10862.4	10825.8	10775.1	10710.9	10633.9	10461.5
35°	10891.9	10891.9	10891.9	10891.9	10891.9	10891.9	10891.9	10891.9	10891.9	10871.2	10774.5
32.5°	10846.6	10835.7	10829.0	10826.8	10829.0	10835.7	10846.6	10861.7	10880.8	10891.9	10891.9
30°	11101.0	11177.4	11223.8	11239.4	11223.8	11177.4	11101.0	10996.0	10864.0	10845.7	10874.1
27.5°	12209.5	12524.9	12716.9	12781.4	12716.9	12524.9	12209.5	11777.3	11238.6	11067.4	10872.1
25°	15167.3	16089.7	16653.2	16842.8	16653.2	16089.7	15167.3	13908.9	12614.8	11915.1	11208.0
22.5°	23624.0	26824.8	28788.4	29450.5	28788.4	26824.8	23624.0	19282.5	15899.8	13880.1	12335.9
20°	43091.2	51262.7	56305.0	58010.5	56305.0	51262.7	43091.2	32092.4	24667.2	17779.7	14670.9
17.5°	77823.3	93847.2	103816.1	107203.2	103816.1	93847.2	77823.3	57122.7	42114.2	27458.8	19096.2
15°	131548.1	161301.5	180035.1	186443.7	180035.1	161301.5	131548.1	98075.8	69161.8	45551.7	27458.8
12.5°	206960.2	263188.0	305248.8	320920.1	305248.8	263188.0	206960.2	156081.3	105098.4	69161.8	42114.2
10°	322395.6	413003.4	478856.4	502373.9	478856.4	413003.4	322395.6	226895.9	156081.3	98075.8	57122.7
7.5°	456724.1	582644.1	677448.5	714380.5	677448.5	582644.1	456724.1	322395.6	206960.2	131548.1	77823.3
5°	582644.1	754058.0	887766.2	938082.5	887766.2	754058.0	582644.1	413003.4	263188.0	161301.5	93847.2
2.5°	677448.5	887766.2	#####	#####	#####	887766.2	677448.5	478856.4	305248.8	180035.1	103816.1
0°	714380.5	938082.5	#####	#####	#####	938082.5	714380.5	502373.9	320920.1	186443.7	107203.2
-2.5°	677448.5	887766.2	#####	#####	#####	887766.2	677448.5	478856.4	305248.8	180035.1	103816.1
-5°	582644.1	754058.0	887766.2	938082.5	887766.2	754058.0	582644.1	413003.4	263188.0	161301.5	93847.2
-7.5°	456724.1	582644.1	677448.5	714380.5	677448.5	582644.1	456724.1	322395.6	206960.2	131548.1	77823.3
-10°	322395.6	413003.4	478856.4	502373.9	478856.4	413003.4	322395.6	226895.9	156081.3	98075.8	57122.7
-12.5°	206960.2	263188.0	305248.8	320920.1	305248.8	263188.0	206960.2	156081.3	105098.4	69161.8	42114.2
-15°	131548.1	161301.5	180035.1	186443.7	180035.1	161301.5	131548.1	98075.8	69161.8	45551.7	27458.8
-17.5°	77823.3	93847.2	103816.1	107203.2	103816.1	93847.2	77823.3	57122.7	42114.2	27458.8	19096.2
-20°	43091.2	51262.7	56305.0	58010.5	56305.0	51262.7	43091.2	32092.4	24667.2	17779.7	14670.9



REPORT NUMBER: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	23624.0	26824.8	28788.4	29450.5	28788.4	26824.8	23624.0	19282.5	15899.8	13880.1	12335.9
-25°	15167.3	16089.7	16653.2	16842.8	16653.2	16089.7	15167.3	13908.9	12614.8	11915.1	11208.0
-27.5°	12209.5	12524.9	12716.9	12781.4	12716.9	12524.9	12209.5	11777.3	11238.6	11067.4	10872.1
-30°	11101.0	11177.4	11223.8	11239.4	11223.8	11177.4	11101.0	10996.0	10864.0	10845.7	10874.1
-32.5°	10846.6	10835.7	10829.0	10826.8	10829.0	10835.7	10846.6	10861.7	10880.8	10891.9	10891.9
-35°	10891.9	10891.9	10891.9	10891.9	10891.9	10891.9	10891.9	10891.9	10891.9	10871.2	10774.5
-37.5°	10825.8	10862.4	10884.5	10891.9	10884.5	10862.4	10825.8	10775.1	10710.9	10633.9	10461.5
-40°	10512.7	10578.4	10618.0	10631.3	10618.0	10578.4	10512.7	10421.7	10306.1	10167.0	9968.9
-42.5°	9977.5	10056.9	10104.8	10120.8	10104.8	10056.9	9977.5	9867.3	9727.1	9558.2	9116.0
-45°	8940.9	9221.7	9391.0	9447.6	9391.0	9221.7	8940.9	8550.7	8053.8	7453.8	6740.7
-47.5°	6321.5	6615.7	6793.0	6852.2	6793.0	6615.7	6321.5	5912.3	5390.7	4760.0	4023.8
-50°	3818.1	3856.7	3879.9	3887.6	3879.9	3856.7	3818.1	3764.5	3696.1	3613.3	3516.5
-52.5°	3421.7	3445.2	3459.4	3464.1	3459.4	3445.2	3421.7	3389.0	3347.2	3296.6	3237.3
-55°	3140.1	3163.2	3177.2	3181.8	3177.2	3163.2	3140.1	3107.9	3066.8	3016.9	2958.4
-57.5°	2820.8	2852.4	2871.4	2877.7	2871.4	2852.4	2820.8	2776.9	2720.6	2652.4	2572.4
-60°	2370.1	2398.7	2416.0	2421.7	2416.0	2398.7	2370.1	2330.2	2279.2	2217.2	2144.4
-62.5°	1921.2	1945.8	1960.6	1965.5	1960.6	1945.8	1921.2	1886.9	1843.0	1789.7	1727.1
-65°	1493.4	1514.3	1526.9	1531.1	1526.9	1514.3	1493.4	1464.2	1426.8	1381.4	1328.0
-67.5°	1089.4	1105.6	1115.3	1118.5	1115.3	1105.6	1089.4	1066.9	1038.0	1002.9	961.6
-70°	739.2	750.8	757.8	760.1	757.8	750.8	739.2	723.0	702.2	677.0	647.3
-72.5°	452.2	460.4	465.4	467.0	465.4	460.4	452.2	440.8	426.1	408.3	387.3
-75°	221.3	225.1	227.3	228.1	227.3	225.1	221.3	216.0	209.1	200.9	191.1
-77.5°	95.9	97.0	97.6	97.8	97.6	97.0	95.9	94.4	92.6	90.3	87.6
-80°	53.9	54.1	54.3	54.3	54.3	54.1	53.9	53.6	53.3	52.8	52.3
-82.5°	43.2	43.4	43.5	43.5	43.5	43.4	43.2	43.0	42.7	42.4	42.0
-85°	32.2	32.4	32.6	32.6	32.6	32.4	32.2	31.9	31.6	31.1	30.6
-87.5°	10.8	10.9	10.9	10.9	10.9	10.9	10.8	10.7	10.6	10.5	10.4
-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):

	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°	10.2	10.1	9.9	9.7	9.4	9.2	8.9	8.6	8.3	8.0	7.7
85°	30.0	29.3	28.5	27.7	26.8	25.8	24.7	23.6	22.4	21.2	19.9
82.5°	41.5	41.0	40.4	39.8	39.1	38.4	37.6	36.7	35.8	34.9	33.9
80°	51.7	51.0	50.2	49.4	48.5	47.5	46.4	45.3	44.1	42.9	41.6
77.5°	84.5	81.0	77.1	72.9	68.3	63.3	58.0	53.8	52.3	50.8	49.1
75°	179.9	167.4	153.4	138.0	121.4	103.4	93.3	86.5	79.3	71.7	63.8
72.5°	363.2	336.1	306.0	273.0	237.2	212.0	189.5	165.7	140.4	113.9	93.9
70°	613.2	574.9	532.4	485.8	441.1	396.8	349.5	299.2	246.2	207.5	175.7
67.5°	914.3	861.1	802.2	741.7	684.4	622.9	557.1	487.4	423.7	360.8	295.0
65°	1266.9	1198.1	1122.0	1049.1	970.7	886.4	796.6	712.0	629.9	543.8	456.3
62.5°	1655.4	1574.9	1488.0	1395.5	1295.3	1187.7	1079.1	973.6	862.6	748.8	649.5
60°	2061.2	1967.8	1869.3	1761.8	1645.6	1521.5	1395.5	1262.2	1122.0	994.0	861.1
57.5°	2480.9	2378.3	2264.9	2141.2	2007.6	1869.3	1724.4	1571.2	1416.4	1256.6	1094.0
55°	2891.6	2786.5	2662.7	2527.8	2382.3	2226.6	2061.2	1890.4	1716.1	1534.0	1354.1
52.5°	3168.8	3087.3	2997.6	2899.9	2753.1	2584.4	2405.6	2217.2	2019.7	1821.0	1617.4
50°	3425.5	3343.4	3253.1	3152.8	3039.0	2917.6	2744.9	2542.3	2330.2	2109.4	1884.5
47.5°	3787.4	3654.0	3507.4	3386.9	3273.1	3149.6	3011.7	2861.4	2634.5	2398.7	2154.6
45°	5833.7	4823.8	3863.2	3691.9	3508.4	3363.6	3226.5	3075.2	2913.9	2681.0	2421.7
42.5°	8257.1	7302.8	6174.3	4885.9	3833.4	3624.8	3424.9	3271.8	3107.3	2929.7	2681.0
40°	9728.1	9461.3	8377.5	7167.6	5738.4	4179.7	3695.6	3455.8	3287.0	3107.3	2913.9
37.5°	10264.3	10022.6	9709.8	9162.8	7784.6	6257.2	4518.9	3719.3	3455.8	3271.8	3075.2
35°	10665.9	10464.4	10210.0	9878.9	9497.9	8096.6	6431.3	4518.9	3695.6	3424.9	3226.5
32.5°	10883.8	10755.0	10600.9	10309.9	9964.6	9539.6	8096.6	6257.2	4179.7	3624.8	3363.6
30°	10891.9	10891.9	10809.6	10651.1	10343.5	9964.6	9497.9	7784.6	5738.4	3833.4	3508.4
27.5°	10853.8	10891.0	10891.9	10827.9	10651.1	10309.9	9878.9	9162.8	7167.6	4885.9	3691.9
25°	10974.0	10843.5	10886.1	10891.9	10809.6	10600.9	10210.0	9709.8	8377.5	6174.3	3863.2
22.5°	11391.0	11008.4	10843.5	10891.0	10891.9	10755.0	10464.4	10022.6	9461.3	7302.8	4823.8
20°	12478.6	11391.0	10974.0	10853.8	10891.9	10883.8	10665.9	10264.3	9728.1	8257.1	5833.7
17.5°	14670.9	12335.9	11208.0	10872.1	10874.1	10891.9	10774.5	10461.5	9968.9	9116.0	6740.7
15°	17779.7	13880.1	11915.1	11067.4	10845.7	10891.9	10871.2	10633.9	10167.0	9558.2	7453.8
12.5°	24667.2	15899.8	12614.8	11238.6	10864.0	10880.8	10891.9	10710.9	10306.1	9727.1	8053.8
10°	32092.4	19282.5	13908.9	11777.3	10996.0	10861.7	10891.9	10775.1	10421.7	9867.3	8550.7
7.5°	43091.2	23624.0	15167.3	12209.5	11101.0	10846.6	10891.9	10825.8	10512.7	9977.5	8940.9
5°	51262.7	26824.8	16089.7	12524.9	11177.4	10835.7	10891.9	10862.4	10578.4	10056.9	9221.7
2.5°	56305.0	28788.4	16653.2	12716.9	11223.8	10829.0	10891.9	10884.5	10618.0	10104.8	9391.0
0°	58010.5	29450.5	16842.8	12781.4	11239.4	10826.8	10891.9	10891.9	10631.3	10120.8	9447.6
-2.5°	56305.0	28788.4	16653.2	12716.9	11223.8	10829.0	10891.9	10884.5	10618.0	10104.8	9391.0
-5°	51262.7	26824.8	16089.7	12524.9	11177.4	10835.7	10891.9	10862.4	10578.4	10056.9	9221.7
-7.5°	43091.2	23624.0	15167.3	12209.5	11101.0	10846.6	10891.9	10825.8	10512.7	9977.5	8940.9
-10°	32092.4	19282.5	13908.9	11777.3	10996.0	10861.7	10891.9	10775.1	10421.7	9867.3	8550.7
-12.5°	24667.2	15899.8	12614.8	11238.6	10864.0	10880.8	10891.9	10710.9	10306.1	9727.1	8053.8
-15°	17779.7	13880.1	11915.1	11067.4	10845.7	10891.9	10871.2	10633.9	10167.0	9558.2	7453.8
-17.5°	14670.9	12335.9	11208.0	10872.1	10874.1	10891.9	10774.5	10461.5	9968.9	9116.0	6740.7
-20°	12478.6	11391.0	10974.0	10853.8	10891.9	10883.8	10665.9	10264.3	9728.1	8257.1	5833.7



REPORT NUMBER: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-57-70-1S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11391.0	11008.4	10843.5	10891.0	10891.9	10755.0	10464.4	10022.6	9461.3	7302.8	4823.8
-25°	10974.0	10843.5	10886.1	10891.9	10809.6	10600.9	10210.0	9709.8	8377.5	6174.3	3863.2
-27.5°	10853.8	10891.0	10891.9	10827.9	10651.1	10309.9	9878.9	9162.8	7167.6	4885.9	3691.9
-30°	10891.9	10891.9	10809.6	10651.1	10343.5	9964.6	9497.9	7784.6	5738.4	3833.4	3508.4
-32.5°	10883.8	10755.0	10600.9	10309.9	9964.6	9539.6	8096.6	6257.2	4179.7	3624.8	3363.6
-35°	10665.9	10464.4	10210.0	9878.9	9497.9	8096.6	6431.3	4518.9	3695.6	3424.9	3226.5
-37.5°	10264.3	10022.6	9709.8	9162.8	7784.6	6257.2	4518.9	3719.3	3455.8	3271.8	3075.2
-40°	9728.1	9461.3	8377.5	7167.6	5738.4	4179.7	3695.6	3455.8	3287.0	3107.3	2913.9
-42.5°	8257.1	7302.8	6174.3	4885.9	3833.4	3624.8	3424.9	3271.8	3107.3	2929.7	2681.0
-45°	5833.7	4823.8	3863.2	3691.9	3508.4	3363.6	3226.5	3075.2	2913.9	2681.0	2421.7
-47.5°	3787.4	3654.0	3507.4	3386.9	3273.1	3149.6	3011.7	2861.4	2634.5	2398.7	2154.6
-50°	3425.5	3343.4	3253.1	3152.8	3039.0	2917.6	2744.9	2542.3	2330.2	2109.4	1884.5
-52.5°	3168.8	3087.3	2997.6	2899.9	2753.1	2584.4	2405.6	2217.2	2019.7	1821.0	1617.4
-55°	2891.6	2786.5	2662.7	2527.8	2382.3	2226.6	2061.2	1890.4	1716.1	1534.0	1354.1
-57.5°	2480.9	2378.3	2264.9	2141.2	2007.6	1869.3	1724.4	1571.2	1416.4	1256.6	1094.0
-60°	2061.2	1967.8	1869.3	1761.8	1645.6	1521.5	1395.5	1262.2	1122.0	994.0	861.1
-62.5°	1655.4	1574.9	1488.0	1395.5	1295.3	1187.7	1079.1	973.6	862.6	748.8	649.5
-65°	1266.9	1198.1	1122.0	1049.1	970.7	886.4	796.6	712.0	629.9	543.8	456.3
-67.5°	914.3	861.1	802.2	741.7	684.4	622.9	557.1	487.4	423.7	360.8	295.0
-70°	613.2	574.9	532.4	485.8	441.1	396.8	349.5	299.2	246.2	207.5	175.7
-72.5°	363.2	336.1	306.0	273.0	237.2	212.0	189.5	165.7	140.4	113.9	93.9
-75°	179.9	167.4	153.4	138.0	121.4	103.4	93.3	86.5	79.3	71.7	63.8
-77.5°	84.5	81.0	77.1	72.9	68.3	63.3	58.0	53.8	52.3	50.8	49.1
-80°	51.7	51.0	50.2	49.4	48.5	47.5	46.4	45.3	44.1	42.9	41.6
-82.5°	41.5	41.0	40.4	39.8	39.1	38.4	37.6	36.7	35.8	34.9	33.9
-85°	30.0	29.3	28.5	27.7	26.8	25.8	24.7	23.6	22.4	21.2	19.9
-87.5°	10.2	10.1	9.9	9.7	9.4	9.2	8.9	8.6	8.3	8.0	7.7
-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: P601482 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200R-57-70-1S

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°	7.4	7.0	6.6	6.3	5.9	5.4	5.0	4.6	4.2	3.7	3.3
85°	18.5	17.1	15.6	14.1	12.5	10.9	10.1	9.2	8.3	7.4	6.5
82.5°	32.9	31.0	28.8	26.5	24.1	21.7	19.2	16.6	14.1	11.4	9.8
80°	40.2	38.7	37.3	35.7	34.1	32.4	29.1	25.7	22.3	18.8	15.2
77.5°	47.4	45.6	43.8	41.9	39.9	37.9	35.8	33.7	30.4	26.0	21.6
75°	55.5	52.5	50.3	48.0	45.6	43.2	40.7	38.2	35.6	32.9	27.9
72.5°	84.3	74.2	63.8	54.0	51.3	48.5	45.6	42.6	39.6	36.5	33.4
70°	142.6	108.2	89.4	77.2	64.6	53.6	50.4	47.0	43.6	40.1	36.5
67.5°	227.2	188.5	148.4	107.2	86.8	72.2	57.4	51.3	47.5	43.6	39.6
65°	380.0	301.0	223.3	177.5	130.4	92.6	76.1	59.3	51.3	47.0	42.6
62.5°	546.4	444.6	354.8	262.3	195.0	142.0	94.5	76.1	57.4	50.4	45.6
60°	729.9	613.2	492.9	387.3	283.9	200.9	142.0	92.6	72.2	53.6	48.5
57.5°	944.2	789.4	653.7	519.7	398.2	283.9	195.0	130.4	86.8	64.6	51.3
55°	1167.9	994.5	822.7	667.2	519.7	387.3	262.3	177.5	107.2	77.2	54.0
52.5°	1413.1	1206.9	1011.3	822.7	653.7	492.9	354.8	223.3	148.4	89.4	63.8
50°	1659.4	1432.8	1206.9	994.5	789.4	613.2	444.6	301.0	188.5	108.2	74.2
47.5°	1905.8	1659.4	1413.1	1167.9	944.2	729.9	546.4	380.0	227.2	142.6	84.3
45°	2154.6	1884.5	1617.4	1354.1	1094.0	861.1	649.5	456.3	295.0	175.7	93.9
42.5°	2398.7	2109.4	1821.0	1534.0	1256.6	994.0	748.8	543.8	360.8	207.5	113.9
40°	2634.5	2330.2	2019.7	1716.1	1416.4	1122.0	862.6	629.9	423.7	246.2	140.4
37.5°	2861.4	2542.3	2217.2	1890.4	1571.2	1262.2	973.6	712.0	487.4	299.2	165.7
35°	3011.7	2744.9	2405.6	2061.2	1724.4	1395.5	1079.1	796.6	557.1	349.5	189.5
32.5°	3149.6	2917.6	2584.4	2226.6	1869.3	1521.5	1187.7	886.4	622.9	396.8	212.0
30°	3273.1	3039.0	2753.1	2382.3	2007.6	1645.6	1295.3	970.7	684.4	441.1	237.2
27.5°	3386.9	3152.8	2899.9	2527.8	2141.2	1761.8	1395.5	1049.1	741.7	485.8	273.0
25°	3507.4	3253.1	2997.6	2662.7	2264.9	1869.3	1488.0	1122.0	802.2	532.4	306.0
22.5°	3654.0	3343.4	3087.3	2786.5	2378.3	1967.8	1574.9	1198.1	861.1	574.9	336.1
20°	3787.4	3425.5	3168.8	2891.6	2480.9	2061.2	1655.4	1266.9	914.3	613.2	363.2
17.5°	4023.8	3516.5	3237.3	2958.4	2572.4	2144.4	1727.1	1328.0	961.6	647.3	387.3
15°	4760.0	3613.3	3296.6	3016.9	2652.4	2217.2	1789.7	1381.4	1002.9	677.0	408.3
12.5°	5390.7	3696.1	3347.2	3066.8	2720.6	2279.2	1843.0	1426.8	1038.0	702.2	426.1
10°	5912.3	3764.5	3389.0	3107.9	2776.9	2330.2	1886.9	1464.2	1066.9	723.0	440.8
7.5°	6321.5	3818.1	3421.7	3140.1	2820.8	2370.1	1921.2	1493.4	1089.4	739.2	452.2
5°	6615.7	3856.7	3445.2	3163.2	2852.4	2398.7	1945.8	1514.3	1105.6	750.8	460.4
2.5°	6793.0	3879.9	3459.4	3177.2	2871.4	2416.0	1960.6	1526.9	1115.3	757.8	465.4
0°	6852.2	3887.6	3464.1	3181.8	2877.7	2421.7	1965.5	1531.1	1118.5	760.1	467.0
-2.5°	6793.0	3879.9	3459.4	3177.2	2871.4	2416.0	1960.6	1526.9	1115.3	757.8	465.4
-5°	6615.7	3856.7	3445.2	3163.2	2852.4	2398.7	1945.8	1514.3	1105.6	750.8	460.4
-7.5°	6321.5	3818.1	3421.7	3140.1	2820.8	2370.1	1921.2	1493.4	1089.4	739.2	452.2
-10°	5912.3	3764.5	3389.0	3107.9	2776.9	2330.2	1886.9	1464.2	1066.9	723.0	440.8
-12.5°	5390.7	3696.1	3347.2	3066.8	2720.6	2279.2	1843.0	1426.8	1038.0	702.2	426.1
-15°	4760.0	3613.3	3296.6	3016.9	2652.4	2217.2	1789.7	1381.4	1002.9	677.0	408.3
-17.5°	4023.8	3516.5	3237.3	2958.4	2572.4	2144.4	1727.1	1328.0	961.6	647.3	387.3
-20°	3787.4	3425.5	3168.8	2891.6	2480.9	2061.2	1655.4	1266.9	914.3	613.2	363.2



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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°	3654.0	3343.4	3087.3	2786.5	2378.3	1967.8	1574.9	1198.1	861.1	574.9	336.1
-25°	3507.4	3253.1	2997.6	2662.7	2264.9	1869.3	1488.0	1122.0	802.2	532.4	306.0
-27.5°	3386.9	3152.8	2899.9	2527.8	2141.2	1761.8	1395.5	1049.1	741.7	485.8	273.0
-30°	3273.1	3039.0	2753.1	2382.3	2007.6	1645.6	1295.3	970.7	684.4	441.1	237.2
-32.5°	3149.6	2917.6	2584.4	2226.6	1869.3	1521.5	1187.7	886.4	622.9	396.8	212.0
-35°	3011.7	2744.9	2405.6	2061.2	1724.4	1395.5	1079.1	796.6	557.1	349.5	189.5
-37.5°	2861.4	2542.3	2217.2	1890.4	1571.2	1262.2	973.6	712.0	487.4	299.2	165.7
-40°	2634.5	2330.2	2019.7	1716.1	1416.4	1122.0	862.6	629.9	423.7	246.2	140.4
-42.5°	2398.7	2109.4	1821.0	1534.0	1256.6	994.0	748.8	543.8	360.8	207.5	113.9
-45°	2154.6	1884.5	1617.4	1354.1	1094.0	861.1	649.5	456.3	295.0	175.7	93.9
-47.5°	1905.8	1659.4	1413.1	1167.9	944.2	729.9	546.4	380.0	227.2	142.6	84.3
-50°	1659.4	1432.8	1206.9	994.5	789.4	613.2	444.6	301.0	188.5	108.2	74.2
-52.5°	1413.1	1206.9	1011.3	822.7	653.7	492.9	354.8	223.3	148.4	89.4	63.8
-55°	1167.9	994.5	822.7	667.2	519.7	387.3	262.3	177.5	107.2	77.2	54.0
-57.5°	944.2	789.4	653.7	519.7	398.2	283.9	195.0	130.4	86.8	64.6	51.3
-60°	729.9	613.2	492.9	387.3	283.9	200.9	142.0	92.6	72.2	53.6	48.5
-62.5°	546.4	444.6	354.8	262.3	195.0	142.0	94.5	76.1	57.4	50.4	45.6
-65°	380.0	301.0	223.3	177.5	130.4	92.6	76.1	59.3	51.3	47.0	42.6
-67.5°	227.2	188.5	148.4	107.2	86.8	72.2	57.4	51.3	47.5	43.6	39.6
-70°	142.6	108.2	89.4	77.2	64.6	53.6	50.4	47.0	43.6	40.1	36.5
-72.5°	84.3	74.2	63.8	54.0	51.3	48.5	45.6	42.6	39.6	36.5	33.4
-75°	55.5	52.5	50.3	48.0	45.6	43.2	40.7	38.2	35.6	32.9	27.9
-77.5°	47.4	45.6	43.8	41.9	39.9	37.9	35.8	33.7	30.4	26.0	21.6
-80°	40.2	38.7	37.3	35.7	34.1	32.4	29.1	25.7	22.3	18.8	15.2
-82.5°	32.9	31.0	28.8	26.5	24.1	21.7	19.2	16.6	14.1	11.4	9.8
-85°	18.5	17.1	15.6	14.1	12.5	10.9	10.1	9.2	8.3	7.4	6.5
-87.5°	7.4	7.0	6.6	6.3	5.9	5.4	5.0	4.6	4.2	3.7	3.3
-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):

	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°	2.8	2.4	1.9	1.4	0.9	0.5	0.0
85°	5.6	4.7	3.8	2.8	1.9	0.9	0.0
82.5°	8.4	7.1	5.7	4.3	2.8	1.4	0.0
80°	11.6	9.4	7.5	5.7	3.8	1.9	0.0
77.5°	17.1	12.5	9.4	7.1	4.7	2.4	0.0
75°	22.5	17.1	11.6	8.4	5.6	2.8	0.0
72.5°	27.9	21.6	15.2	9.8	6.5	3.3	0.0
70°	32.9	26.0	18.8	11.4	7.4	3.7	0.0
67.5°	35.6	30.4	22.3	14.1	8.3	4.2	0.0
65°	38.2	33.7	25.7	16.6	9.2	4.6	0.0
62.5°	40.7	35.8	29.1	19.2	10.1	5.0	0.0
60°	43.2	37.9	32.4	21.7	10.9	5.4	0.0
57.5°	45.6	39.9	34.1	24.1	12.5	5.9	0.0
55°	48.0	41.9	35.7	26.5	14.1	6.3	0.0
52.5°	50.3	43.8	37.3	28.8	15.6	6.6	0.0
50°	52.5	45.6	38.7	31.0	17.1	7.0	0.0
47.5°	55.5	47.4	40.2	32.9	18.5	7.4	0.0
45°	63.8	49.1	41.6	33.9	19.9	7.7	0.0
42.5°	71.7	50.8	42.9	34.9	21.2	8.0	0.0
40°	79.3	52.3	44.1	35.8	22.4	8.3	0.0
37.5°	86.5	53.8	45.3	36.7	23.6	8.6	0.0
35°	93.3	58.0	46.4	37.6	24.7	8.9	0.0
32.5°	103.4	63.3	47.5	38.4	25.8	9.2	0.0
30°	121.4	68.3	48.5	39.1	26.8	9.4	0.0
27.5°	138.0	72.9	49.4	39.8	27.7	9.7	0.0
25°	153.4	77.1	50.2	40.4	28.5	9.9	0.0
22.5°	167.4	81.0	51.0	41.0	29.3	10.1	0.0
20°	179.9	84.5	51.7	41.5	30.0	10.2	0.0
17.5°	191.1	87.6	52.3	42.0	30.6	10.4	0.0
15°	200.9	90.3	52.8	42.4	31.1	10.5	0.0
12.5°	209.1	92.6	53.3	42.7	31.6	10.6	0.0
10°	216.0	94.4	53.6	43.0	31.9	10.7	0.0
7.5°	221.3	95.9	53.9	43.2	32.2	10.8	0.0
5°	225.1	97.0	54.1	43.4	32.4	10.9	0.0
2.5°	227.3	97.6	54.3	43.5	32.6	10.9	0.0
0°	228.1	97.8	54.3	43.5	32.6	10.9	0.0
-2.5°	227.3	97.6	54.3	43.5	32.6	10.9	0.0
-5°	225.1	97.0	54.1	43.4	32.4	10.9	0.0
-7.5°	221.3	95.9	53.9	43.2	32.2	10.8	0.0
-10°	216.0	94.4	53.6	43.0	31.9	10.7	0.0
-12.5°	209.1	92.6	53.3	42.7	31.6	10.6	0.0
-15°	200.9	90.3	52.8	42.4	31.1	10.5	0.0
-17.5°	191.1	87.6	52.3	42.0	30.6	10.4	0.0
-20°	179.9	84.5	51.7	41.5	30.0	10.2	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	167.4	81.0	51.0	41.0	29.3	10.1	0.0
-25°	153.4	77.1	50.2	40.4	28.5	9.9	0.0
-27.5°	138.0	72.9	49.4	39.8	27.7	9.7	0.0
-30°	121.4	68.3	48.5	39.1	26.8	9.4	0.0
-32.5°	103.4	63.3	47.5	38.4	25.8	9.2	0.0
-35°	93.3	58.0	46.4	37.6	24.7	8.9	0.0
-37.5°	86.5	53.8	45.3	36.7	23.6	8.6	0.0
-40°	79.3	52.3	44.1	35.8	22.4	8.3	0.0
-42.5°	71.7	50.8	42.9	34.9	21.2	8.0	0.0
-45°	63.8	49.1	41.6	33.9	19.9	7.7	0.0
-47.5°	55.5	47.4	40.2	32.9	18.5	7.4	0.0
-50°	52.5	45.6	38.7	31.0	17.1	7.0	0.0
-52.5°	50.3	43.8	37.3	28.8	15.6	6.6	0.0
-55°	48.0	41.9	35.7	26.5	14.1	6.3	0.0
-57.5°	45.6	39.9	34.1	24.1	12.5	5.9	0.0
-60°	43.2	37.9	32.4	21.7	10.9	5.4	0.0
-62.5°	40.7	35.8	29.1	19.2	10.1	5.0	0.0
-65°	38.2	33.7	25.7	16.6	9.2	4.6	0.0
-67.5°	35.6	30.4	22.3	14.1	8.3	4.2	0.0
-70°	32.9	26.0	18.8	11.4	7.4	3.7	0.0
-72.5°	27.9	21.6	15.2	9.8	6.5	3.3	0.0
-75°	22.5	17.1	11.6	8.4	5.6	2.8	0.0
-77.5°	17.1	12.5	9.4	7.1	4.7	2.4	0.0
-80°	11.6	9.4	7.5	5.7	3.8	1.9	0.0
-82.5°	8.4	7.1	5.7	4.3	2.8	1.4	0.0
-85°	5.6	4.7	3.8	2.8	1.9	0.9	0.0
-87.5°	2.8	2.4	1.9	1.4	0.9	0.5	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

