

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: EPHESUS

Report Number: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: EPH-LS16-1200L-57-80-2S

Issue Date: 8/3/2022



Test Information

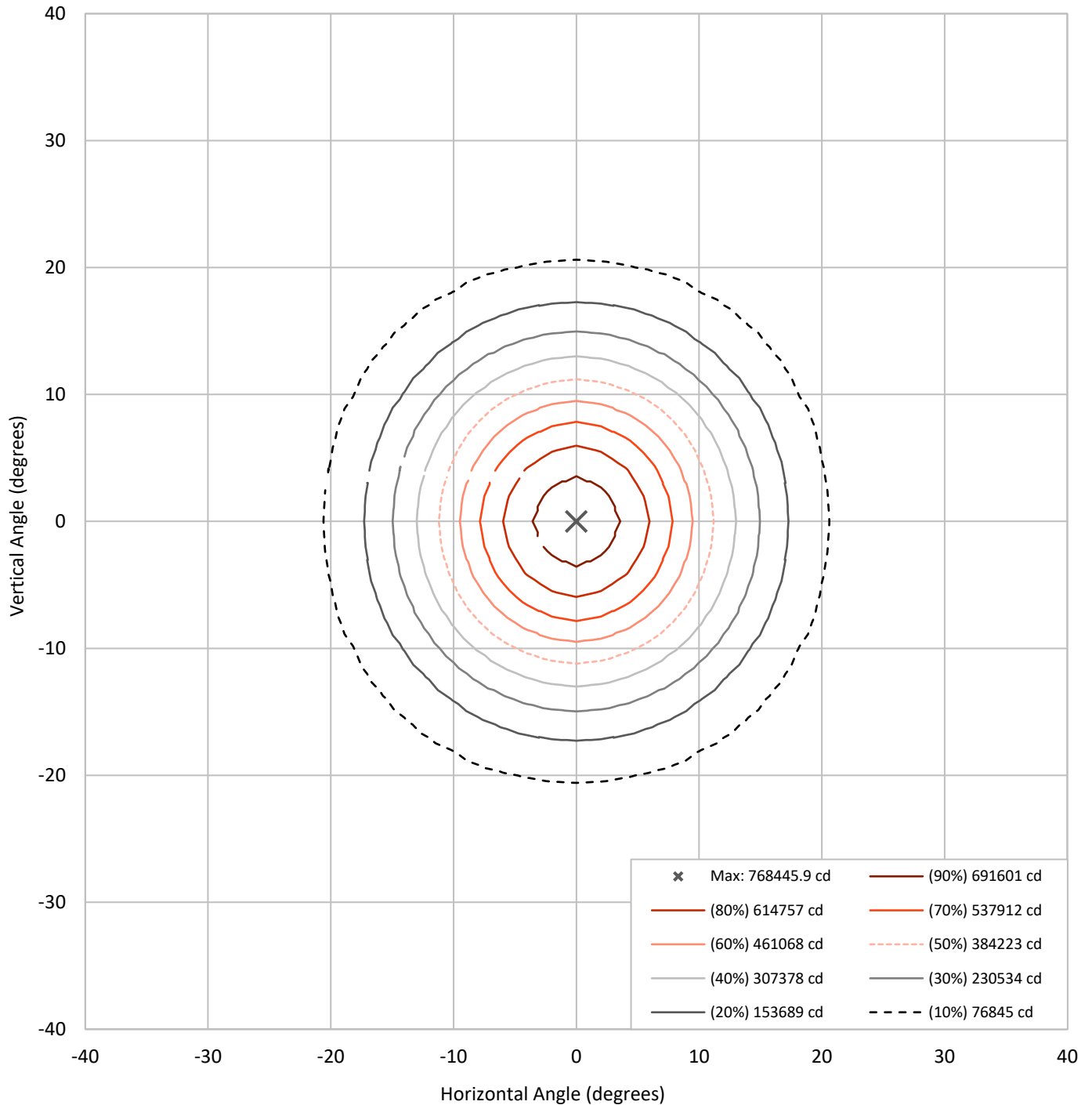
Test Method: LM-79-2019
Report Number: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-700-11)
Test Lab: INNOVATION CENTER
Issue Date: 8/3/2022
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: EPHEBUS
Catalog Number: EPH-LS16-1200L-57-80-2S
Description: EPHEBUS LUMASPORT 16 LUMINAIRE
(16) 5700K, 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:	150978.1 lumens	Max Intensity:	768445.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	118.1 lumens/watt		
Luminous Opening:	Circular (Dia: 1.67' x H: 0')		
Beam Angle (50%):	22.4°H x 22.4°V	Field Angle (10%):	41.2°H x 41.2°V
Beam Lumens:	62169.1 lumens	Field Lumens:	119120.2 lumens
Beam Efficiency:	41.2%	Field Efficiency:	78.9%
Input Watts (W):	1278		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

REPORT NUMBER: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)
CATALOG NUMBER: EPH-LS16-1200L-57-80-2S

Iso-Candela Plot





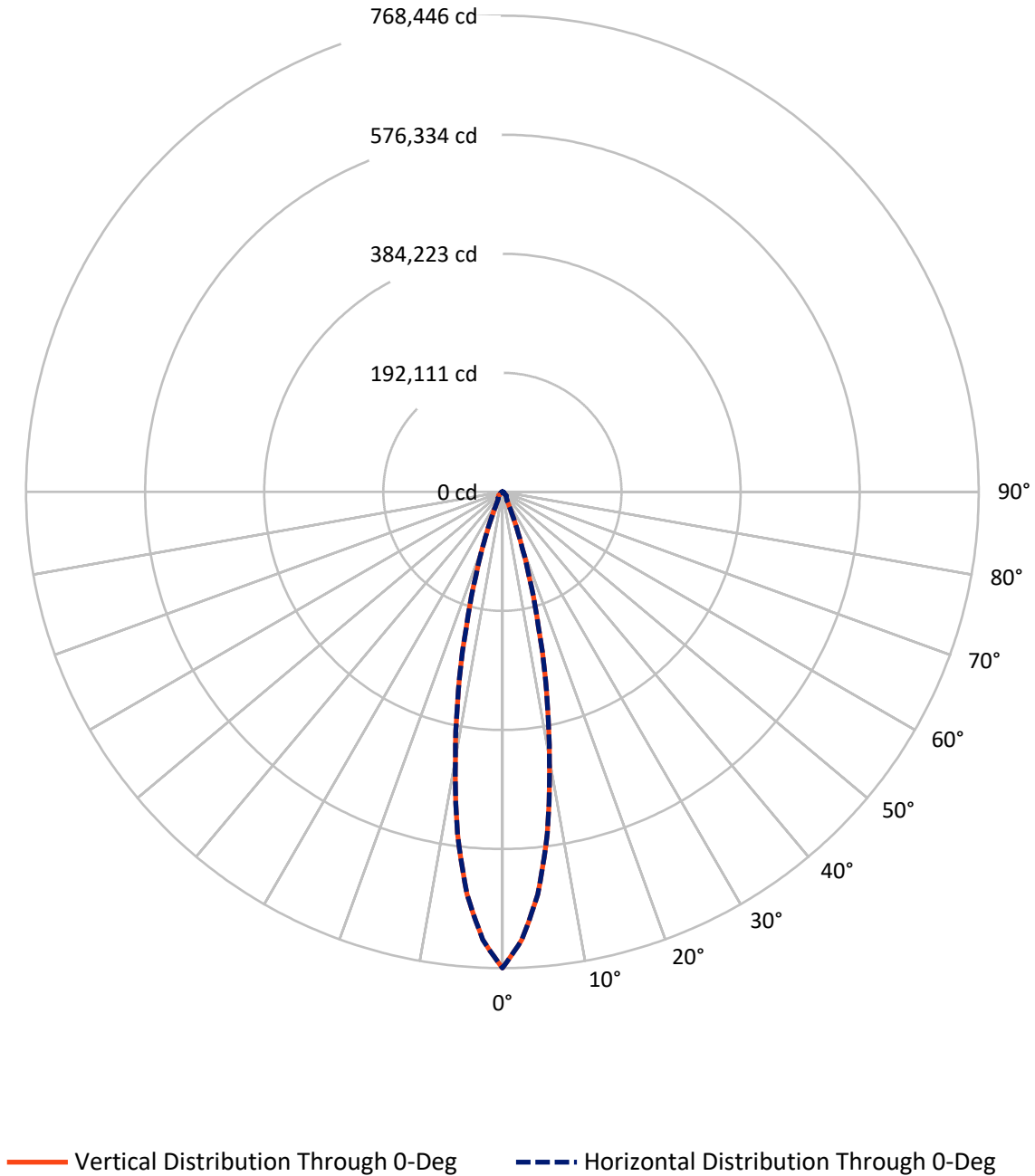
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Lumen Table

90	0.2	1.5	5.6	14.2	18.7	14.2	5.6	1.5	0.2							
80	0.2	1.5	5.6	14.2	18.7	14.2	5.6	1.5	0.2							
70	0.7	0.8	3.5	10.2	20.0	30.5	39.5	44.5	44.5	39.5	30.5	20.0	10.2	3.5	0.8	0.7
60		2.6	11.8	28.3	49.7	71.6	88.0	96.6	96.6	88.0	71.6	49.7	28.3	11.8	2.6	
50	1.9	6.3	23.1	50.8	82.7	132.0	195.5	232.3	232.3	195.5	132.0	82.7	50.8	23.1	6.3	1.9
40		10.6	35.2	71.6	151.7	257.4	317.9	353.2	353.2	317.9	257.4	151.7	71.6	35.2	10.6	
30	4.2	14.7	45.8	103.9	233.0	328.1	529.0	964.2	964.2	529.0	328.1	233.0	103.9	45.8	14.7	4.2
20		17.8	52.8	144.9	270.1	498.2	2319.3	6168.1	6168.1	2319.3	498.2	270.1	144.9	52.8	17.8	
10	5.2	19.5	56.1	166.7	291.3	886.7	6009.2	16167.0	16167.0	6009.2	886.7	291.3	166.7	56.1	19.5	5.2
0		19.5	56.1	166.7	291.3	886.7	6009.2	16167.0	16167.0	6009.2	886.7	291.3	166.7	56.1	19.5	
-10	4.2	17.8	52.8	144.9	270.1	498.2	2319.3	6168.1	6168.1	2319.3	498.2	270.1	144.9	52.8	17.8	4.2
-20		14.7	45.8	103.9	233.0	328.1	529.0	964.2	964.2	529.0	328.1	233.0	103.9	45.8	14.7	
-30	1.9	10.6	35.2	71.6	151.7	257.4	317.9	353.2	353.2	317.9	257.4	151.7	71.6	35.2	10.6	1.9
-40		6.3	23.1	50.8	82.7	132.0	195.5	232.3	232.3	195.5	132.0	82.7	50.8	23.1	6.3	
-50	0.7	2.6	11.8	28.3	49.7	71.6	88.0	96.6	96.6	88.0	71.6	49.7	28.3	11.8	2.6	0.7
-60		0.8	3.5	10.2	20.0	30.5	39.5	44.5	44.5	39.5	30.5	20.0	10.2	3.5	0.8	
-70	0.2	1.5	5.6	14.2	18.7	14.2	5.6	1.5	0.2							
-80		0.2	1.5	5.6	14.2	18.7	14.2	5.6	1.5	0.2						
-90	0.2	1.5	5.6	14.2	18.7	14.2	5.6	1.5	0.2							

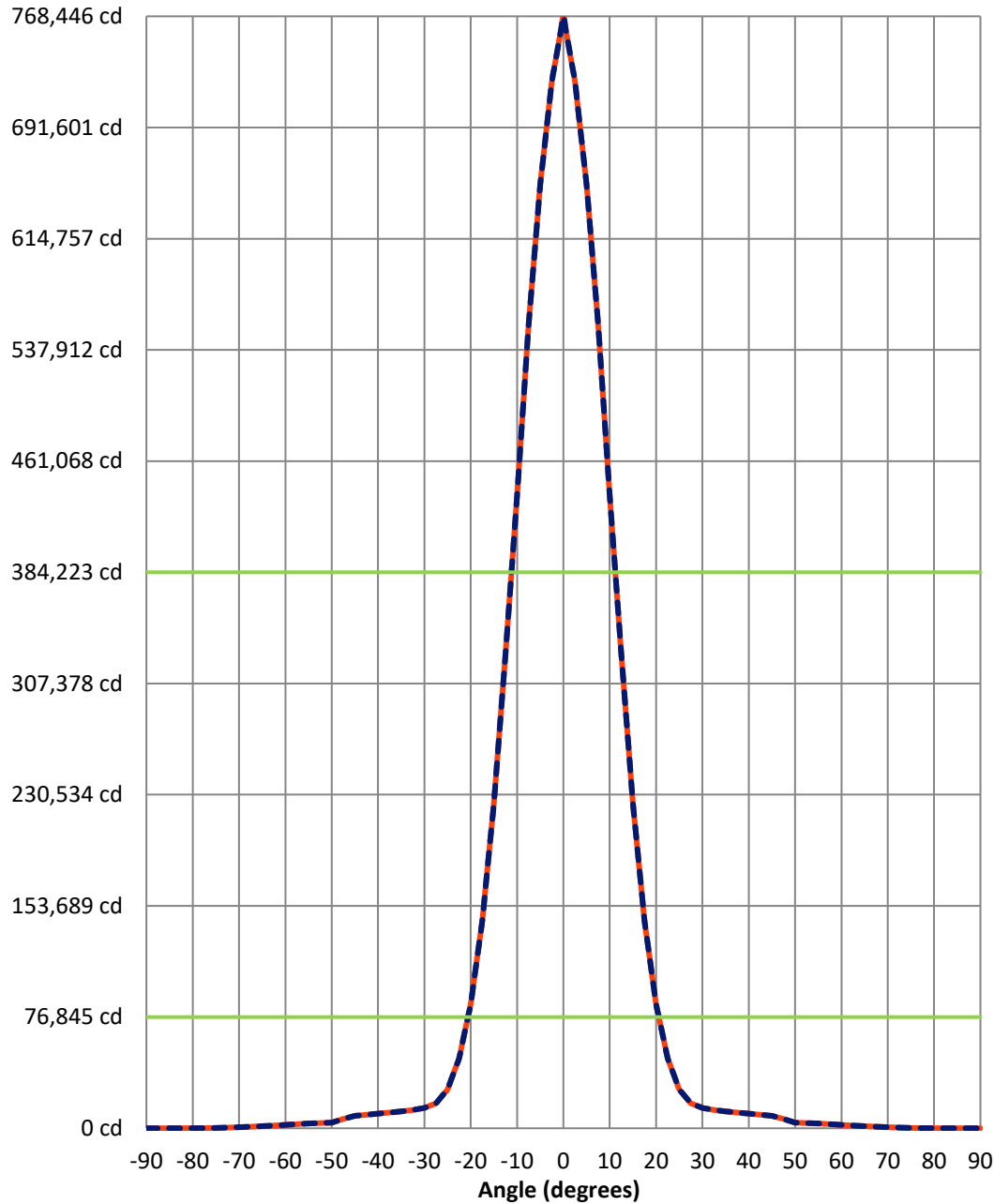
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 22.4°
 V Angle: 22.4°
 Lumens: 62169.1
 Efficiency: 41.2%

Field:
 H Angle: 41.2°
 V Angle: 41.2°
 Lumens: 119120.2
 Efficiency: 78.9%

Spill:
 Lumens: 31857.9
 Efficiency: 21.1%

— 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	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
85°	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.1	6.9	7.6
82.5°	0.0	1.2	2.3	3.5	4.7	5.8	7.0	8.1	9.3	10.7	12.2
80°	0.0	1.6	3.1	4.7	6.2	7.8	9.4	11.4	13.3	15.3	17.2
77.5°	0.0	1.9	3.9	5.8	7.8	9.9	12.4	14.9	17.4	19.8	22.4
75°	0.0	2.3	4.7	7.0	9.4	12.4	15.4	18.4	21.4	24.8	28.2
72.5°	0.0	2.7	5.4	8.1	11.4	14.9	18.4	22.1	26.1	30.0	33.9
70°	0.0	3.1	6.1	9.3	13.3	17.4	21.4	26.1	30.6	35.1	40.2
67.5°	0.0	3.4	6.9	10.7	15.3	19.8	24.8	30.0	35.1	40.9	46.6
65°	0.0	3.8	7.6	12.2	17.2	22.4	28.2	33.9	40.2	46.6	55.7
62.5°	0.0	4.2	8.3	13.6	19.1	25.1	31.4	38.1	45.2	53.9	71.6
60°	0.0	4.5	9.0	15.0	20.9	27.8	34.6	42.3	50.0	67.9	87.1
57.5°	0.0	4.8	9.9	16.3	23.0	30.4	38.2	46.5	60.7	81.6	125.0
55°	0.0	5.2	10.8	17.6	25.0	32.9	41.6	50.6	72.5	101.5	172.7
52.5°	0.0	5.5	11.6	18.9	27.0	35.5	45.0	60.0	84.1	143.3	219.2
50°	0.0	5.8	12.4	20.1	28.9	38.2	48.3	69.8	102.6	183.9	294.2
47.5°	0.0	6.1	13.2	21.3	30.7	40.8	52.2	79.2	137.4	223.1	370.3
45°	0.0	6.4	14.0	22.7	32.5	43.3	59.9	88.3	171.0	288.4	443.7
42.5°	0.0	6.6	14.7	23.9	34.2	45.8	67.4	108.3	203.2	351.7	528.9
40°	0.0	6.9	15.4	25.1	35.9	48.1	74.5	135.2	241.4	412.3	613.0
37.5°	0.0	7.1	16.0	26.3	37.7	50.3	81.3	160.7	292.5	473.9	693.1
35°	0.0	7.4	16.7	27.4	39.3	54.5	87.7	184.9	340.9	542.0	774.2
32.5°	0.0	7.6	17.2	28.4	40.9	59.5	97.7	207.7	386.4	606.1	858.4
30°	0.0	7.8	17.8	29.3	42.4	64.2	115.9	232.7	429.1	666.2	937.4
27.5°	0.0	8.0	18.3	30.2	43.7	68.5	132.8	267.2	472.4	722.0	1011.0
25°	0.0	8.2	18.7	31.0	45.0	72.5	148.3	299.0	517.8	779.4	1079.3
22.5°	0.0	8.3	19.2	31.8	46.1	76.2	162.5	328.0	559.3	834.7	1150.7
20°	0.0	8.5	19.5	32.5	47.1	79.5	175.2	354.1	596.7	884.6	1215.2
17.5°	0.0	8.6	19.9	33.0	48.0	82.4	186.5	377.3	629.9	928.9	1272.5
15°	0.0	8.7	20.2	33.6	48.8	84.9	196.4	397.5	658.9	967.6	1322.6
12.5°	0.0	8.8	20.4	34.0	49.5	87.1	204.8	414.6	683.5	1000.5	1365.2
10°	0.0	8.9	20.6	34.4	50.0	88.8	211.7	428.8	703.8	1027.6	1400.3
7.5°	0.0	8.9	20.8	34.6	50.4	90.2	217.1	439.8	719.6	1048.7	1427.6
5°	0.0	9.0	20.9	34.8	50.8	91.2	220.9	447.7	730.9	1063.9	1447.3
2.5°	0.0	9.0	21.0	35.0	50.9	91.8	223.2	452.4	737.7	1073.0	1459.1
0°	0.0	9.0	21.0	35.0	51.0	92.0	224.0	454.0	740.0	1076.0	1463.0
-2.5°	0.0	9.0	21.0	35.0	50.9	91.8	223.2	452.4	737.7	1073.0	1459.1
-5°	0.0	9.0	20.9	34.8	50.8	91.2	220.9	447.7	730.9	1063.9	1447.3
-7.5°	0.0	8.9	20.8	34.6	50.4	90.2	217.1	439.8	719.6	1048.7	1427.6
-10°	0.0	8.9	20.6	34.4	50.0	88.8	211.7	428.8	703.8	1027.6	1400.3
-12.5°	0.0	8.8	20.4	34.0	49.5	87.1	204.8	414.6	683.5	1000.5	1365.2
-15°	0.0	8.7	20.2	33.6	48.8	84.9	196.4	397.5	658.9	967.6	1322.6
-17.5°	0.0	8.6	19.9	33.0	48.0	82.4	186.5	377.3	629.9	928.9	1272.5
-20°	0.0	8.5	19.5	32.5	47.1	79.5	175.2	354.1	596.7	884.6	1215.2

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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	8.3	19.2	31.8	46.1	76.2	162.5	328.0	559.3	834.7	1150.7
-25°	0.0	8.2	18.7	31.0	45.0	72.5	148.3	299.0	517.8	779.4	1079.3
-27.5°	0.0	8.0	18.3	30.2	43.7	68.5	132.8	267.2	472.4	722.0	1011.0
-30°	0.0	7.8	17.8	29.3	42.4	64.2	115.9	232.7	429.1	666.2	937.4
-32.5°	0.0	7.6	17.2	28.4	40.9	59.5	97.7	207.7	386.4	606.1	858.4
-35°	0.0	7.4	16.7	27.4	39.3	54.5	87.7	184.9	340.9	542.0	774.2
-37.5°	0.0	7.1	16.0	26.3	37.7	50.3	81.3	160.7	292.5	473.9	693.1
-40°	0.0	6.9	15.4	25.1	35.9	48.1	74.5	135.2	241.4	412.3	613.0
-42.5°	0.0	6.6	14.7	23.9	34.2	45.8	67.4	108.3	203.2	351.7	528.9
-45°	0.0	6.4	14.0	22.7	32.5	43.3	59.9	88.3	171.0	288.4	443.7
-47.5°	0.0	6.1	13.2	21.3	30.7	40.8	52.2	79.2	137.4	223.1	370.3
-50°	0.0	5.8	12.4	20.1	28.9	38.2	48.3	69.8	102.6	183.9	294.2
-52.5°	0.0	5.5	11.6	18.9	27.0	35.5	45.0	60.0	84.1	143.3	219.2
-55°	0.0	5.2	10.8	17.6	25.0	32.9	41.6	50.6	72.5	101.5	172.7
-57.5°	0.0	4.8	9.9	16.3	23.0	30.4	38.2	46.5	60.7	81.6	125.0
-60°	0.0	4.5	9.0	15.0	20.9	27.8	34.6	42.3	50.0	67.9	87.1
-62.5°	0.0	4.2	8.3	13.6	19.1	25.1	31.4	38.1	45.2	53.9	71.6
-65°	0.0	3.8	7.6	12.2	17.2	22.4	28.2	33.9	40.2	46.6	55.7
-67.5°	0.0	3.4	6.9	10.7	15.3	19.8	24.8	30.0	35.1	40.9	46.6
-70°	0.0	3.1	6.1	9.3	13.3	17.4	21.4	26.1	30.6	35.1	40.2
-72.5°	0.0	2.7	5.4	8.1	11.4	14.9	18.4	22.1	26.1	30.0	33.9
-75°	0.0	2.3	4.7	7.0	9.4	12.4	15.4	18.4	21.4	24.8	28.2
-77.5°	0.0	1.9	3.9	5.8	7.8	9.9	12.4	14.9	17.4	19.8	22.4
-80°	0.0	1.6	3.1	4.7	6.2	7.8	9.4	11.4	13.3	15.3	17.2
-82.5°	0.0	1.2	2.3	3.5	4.7	5.8	7.0	8.1	9.3	10.7	12.2
-85°	0.0	0.8	1.6	2.3	3.1	3.9	4.7	5.4	6.1	6.9	7.6
-87.5°	0.0	0.4	0.8	1.2	1.6	1.9	2.3	2.7	3.1	3.4	3.8
-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°	4.2	4.5	4.8	5.2	5.5	5.8	6.1	6.4	6.6	6.9	7.1
85°	8.3	9.0	9.9	10.8	11.6	12.4	13.2	14.0	14.7	15.4	16.0
82.5°	13.6	15.0	16.3	17.6	18.9	20.1	21.3	22.7	23.9	25.1	26.3
80°	19.1	20.9	23.0	25.0	27.0	28.9	30.7	32.5	34.2	35.9	37.7
77.5°	25.1	27.8	30.4	32.9	35.5	38.2	40.8	43.3	45.8	48.1	50.3
75°	31.4	34.6	38.2	41.6	45.0	48.3	52.2	59.9	67.4	74.5	81.3
72.5°	38.1	42.3	46.5	50.6	60.0	69.8	79.2	88.3	108.3	135.2	160.7
70°	45.2	50.0	60.7	72.5	84.1	102.6	137.4	171.0	203.2	241.4	292.5
67.5°	53.9	67.9	81.6	101.5	143.3	183.9	223.1	288.4	351.7	412.3	473.9
65°	71.6	87.1	125.0	172.7	219.2	294.2	370.3	443.7	528.9	613.0	693.1
62.5°	88.9	136.8	190.5	256.9	346.0	432.5	531.4	632.1	729.0	836.1	940.2
60°	136.8	196.4	277.7	377.3	479.3	596.7	710.6	834.7	959.3	1079.3	1210.8
57.5°	190.5	277.7	387.7	505.4	636.1	767.5	912.6	1053.0	1205.6	1355.4	1501.3
55°	256.9	377.3	505.4	649.3	798.7	959.7	1122.3	1297.0	1465.8	1639.7	1806.3
52.5°	346.0	479.3	636.1	798.7	975.5	1158.9	1352.3	1545.5	1740.0	1932.7	2132.3
50°	432.5	596.7	767.5	959.7	1158.9	1370.8	1585.6	1800.6	2023.4	2246.6	2474.6
47.5°	531.4	710.6	912.6	1122.3	1352.3	1585.6	1821.0	2069.1	2315.8	2578.4	2833.6
45°	632.1	834.7	1053.0	1297.0	1545.5	1800.6	2069.1	2339.0	2630.7	2906.9	3151.5
42.5°	729.0	959.3	1205.6	1465.8	1740.0	2023.4	2315.8	2630.7	2930.8	3200.1	3403.3
40°	836.1	1079.3	1355.4	1639.7	1932.7	2246.6	2578.4	2906.9	3200.1	3418.5	3587.7
37.5°	940.2	1210.8	1501.3	1806.3	2132.3	2474.6	2833.6	3151.5	3403.3	3587.7	3780.4
35°	1039.0	1335.8	1647.6	1974.7	2322.8	2702.6	3055.1	3357.9	3556.7	3763.3	4440.5
32.5°	1140.9	1454.0	1786.1	2141.8	2522.1	2912.5	3264.2	3495.3	3712.1	4151.2	5923.4
30°	1241.8	1572.4	1920.5	2299.2	2711.8	3096.5	3404.5	3628.0	3862.8	5480.9	7201.3
27.5°	1335.8	1683.4	2055.6	2458.4	2885.6	3269.0	3518.6	3760.6	4753.6	6691.5	8339.7
25°	1422.6	1786.1	2180.6	2610.1	3033.7	3384.4	3627.3	3884.3	5852.7	7691.0	8876.9
22.5°	1504.8	1880.3	2295.1	2749.3	3169.8	3475.0	3733.2	4700.6	6803.2	8590.7	9237.0
20°	1581.8	1974.7	2405.6	2873.1	3293.3	3557.3	3829.6	5562.2	7591.6	8898.0	9565.0
17.5°	1650.2	2058.8	2508.5	2974.3	3368.7	3633.9	4018.2	6335.9	8301.1	9175.1	9860.5
15°	1710.1	2132.3	2598.5	3063.0	3428.1	3703.8	4646.2	6928.0	8702.3	9419.3	10122.4
12.5°	1761.0	2195.0	2675.3	3138.6	3478.8	3763.6	5184.2	7423.6	8896.8	9627.7	10344.2
10°	1802.9	2246.6	2738.6	3201.0	3520.7	3813.1	5629.2	7834.1	9058.1	9800.9	10528.9
7.5°	1835.7	2286.9	2788.0	3249.8	3553.5	3851.8	5978.2	8156.4	9185.0	9937.3	10674.7
5°	1859.2	2315.8	2823.5	3284.9	3577.1	3879.6	6229.2	8388.4	9276.4	10035.7	10780.0
2.5°	1873.3	2333.2	2844.9	3306.0	3591.3	3896.4	6380.5	8528.3	9331.6	10095.1	10843.7
0°	1878.0	2339.0	2852.0	3313.0	3596.0	3902.0	6431.0	8575.0	9350.0	10115.0	10865.0
-2.5°	1873.3	2333.2	2844.9	3306.0	3591.3	3896.4	6380.5	8528.3	9331.6	10095.1	10843.7
-5°	1859.2	2315.8	2823.5	3284.9	3577.1	3879.6	6229.2	8388.4	9276.4	10035.7	10780.0
-7.5°	1835.7	2286.9	2788.0	3249.8	3553.5	3851.8	5978.2	8156.4	9185.0	9937.3	10674.7
-10°	1802.9	2246.6	2738.6	3201.0	3520.7	3813.1	5629.2	7834.1	9058.1	9800.9	10528.9
-12.5°	1761.0	2195.0	2675.3	3138.6	3478.8	3763.6	5184.2	7423.6	8896.8	9627.7	10344.2
-15°	1710.1	2132.3	2598.5	3063.0	3428.1	3703.8	4646.2	6928.0	8702.3	9419.3	10122.4
-17.5°	1650.2	2058.8	2508.5	2974.3	3368.7	3633.9	4018.2	6335.9	8301.1	9175.1	9860.5
-20°	1581.8	1974.7	2405.6	2873.1	3293.3	3557.3	3829.6	5562.2	7591.6	8898.0	9565.0

Classified

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

Scaled Data Report



REPORT NUMBER: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-80-2S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1504.8	1880.3	2295.1	2749.3	3169.8	3475.0	3733.2	4700.6	6803.2	8590.7	9237.0
-25°	1422.6	1786.1	2180.6	2610.1	3033.7	3384.4	3627.3	3884.3	5852.7	7691.0	8876.9
-27.5°	1335.8	1683.4	2055.6	2458.4	2885.6	3269.0	3518.6	3760.6	4753.6	6691.5	8339.7
-30°	1241.8	1572.4	1920.5	2299.2	2711.8	3096.5	3404.5	3628.0	3862.8	5480.9	7201.3
-32.5°	1140.9	1454.0	1786.1	2141.8	2522.1	2912.5	3264.2	3495.3	3712.1	4151.2	5923.4
-35°	1039.0	1335.8	1647.6	1974.7	2322.8	2702.6	3055.1	3357.9	3556.7	3763.3	4440.5
-37.5°	940.2	1210.8	1501.3	1806.3	2132.3	2474.6	2833.6	3151.5	3403.3	3587.7	3780.4
-40°	836.1	1079.3	1355.4	1639.7	1932.7	2246.6	2578.4	2906.9	3200.1	3418.5	3587.7
-42.5°	729.0	959.3	1205.6	1465.8	1740.0	2023.4	2315.8	2630.7	2930.8	3200.1	3403.3
-45°	632.1	834.7	1053.0	1297.0	1545.5	1800.6	2069.1	2339.0	2630.7	2906.9	3151.5
-47.5°	531.4	710.6	912.6	1122.3	1352.3	1585.6	1821.0	2069.1	2315.8	2578.4	2833.6
-50°	432.5	596.7	767.5	959.7	1158.9	1370.8	1585.6	1800.6	2023.4	2246.6	2474.6
-52.5°	346.0	479.3	636.1	798.7	975.5	1158.9	1352.3	1545.5	1740.0	1932.7	2132.3
-55°	256.9	377.3	505.4	649.3	798.7	959.7	1122.3	1297.0	1465.8	1639.7	1806.3
-57.5°	190.5	277.7	387.7	505.4	636.1	767.5	912.6	1053.0	1205.6	1355.4	1501.3
-60°	136.8	196.4	277.7	377.3	479.3	596.7	710.6	834.7	959.3	1079.3	1210.8
-62.5°	88.9	136.8	190.5	256.9	346.0	432.5	531.4	632.1	729.0	836.1	940.2
-65°	71.6	87.1	125.0	172.7	219.2	294.2	370.3	443.7	528.9	613.0	693.1
-67.5°	53.9	67.9	81.6	101.5	143.3	183.9	223.1	288.4	351.7	412.3	473.9
-70°	45.2	50.0	60.7	72.5	84.1	102.6	137.4	171.0	203.2	241.4	292.5
-72.5°	38.1	42.3	46.5	50.6	60.0	69.8	79.2	88.3	108.3	135.2	160.7
-75°	31.4	34.6	38.2	41.6	45.0	48.3	52.2	59.9	67.4	74.5	81.3
-77.5°	25.1	27.8	30.4	32.9	35.5	38.2	40.8	43.3	45.8	48.1	50.3
-80°	19.1	20.9	23.0	25.0	27.0	28.9	30.7	32.5	34.2	35.9	37.7
-82.5°	13.6	15.0	16.3	17.6	18.9	20.1	21.3	22.7	23.9	25.1	26.3
-85°	8.3	9.0	9.9	10.8	11.6	12.4	13.2	14.0	14.7	15.4	16.0
-87.5°	4.2	4.5	4.8	5.2	5.5	5.8	6.1	6.4	6.6	6.9	7.1
-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: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-57-80-2S

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°	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9
85°	16.7	17.2	17.8	18.3	18.7	19.2	19.5	19.9	20.2	20.4	20.6
82.5°	27.4	28.4	29.3	30.2	31.0	31.8	32.5	33.0	33.6	34.0	34.4
80°	39.3	40.9	42.4	43.7	45.0	46.1	47.1	48.0	48.8	49.5	50.0
77.5°	54.5	59.5	64.2	68.5	72.5	76.2	79.5	82.4	84.9	87.1	88.8
75°	87.7	97.7	115.9	132.8	148.3	162.5	175.2	186.5	196.4	204.8	211.7
72.5°	184.9	207.7	232.7	267.2	299.0	328.0	354.1	377.3	397.5	414.6	428.8
70°	340.9	386.4	429.1	472.4	517.8	559.3	596.7	629.9	658.9	683.5	703.8
67.5°	542.0	606.1	666.2	722.0	779.4	834.7	884.6	928.9	967.6	1000.5	1027.6
65°	774.2	858.4	937.4	1011.0	1079.3	1150.7	1215.2	1272.5	1322.6	1365.2	1400.3
62.5°	1039.0	1140.9	1241.8	1335.8	1422.6	1504.8	1581.8	1650.2	1710.1	1761.0	1802.9
60°	1335.8	1454.0	1572.4	1683.4	1786.1	1880.3	1974.7	2058.8	2132.3	2195.0	2246.6
57.5°	1647.6	1786.1	1920.5	2055.6	2180.6	2295.1	2405.6	2508.5	2598.5	2675.3	2738.6
55°	1974.7	2141.8	2299.2	2458.4	2610.1	2749.3	2873.1	2974.3	3063.0	3138.6	3201.0
52.5°	2322.8	2522.1	2711.8	2885.6	3033.7	3169.8	3293.3	3368.7	3428.1	3478.8	3520.7
50°	2702.6	2912.5	3096.5	3269.0	3384.4	3475.0	3557.3	3633.9	3703.8	3763.6	3813.1
47.5°	3055.1	3264.2	3404.5	3518.6	3627.3	3733.2	3829.6	4018.2	4646.2	5184.2	5629.2
45°	3357.9	3495.3	3628.0	3760.6	3884.3	4700.6	5562.2	6335.9	6928.0	7423.6	7834.1
42.5°	3556.7	3712.1	3862.8	4753.6	5852.7	6803.2	7591.6	8301.1	8702.3	8896.8	9058.1
40°	3763.3	4151.2	5480.9	6691.5	7691.0	8590.7	8898.0	9175.1	9419.3	9627.7	9800.9
37.5°	4440.5	5923.4	7201.3	8339.7	8876.9	9237.0	9565.0	9860.5	10122.4	10344.2	10528.9
35°	6072.0	7459.0	8632.9	9071.6	9483.6	9864.9	10214.5	10527.3	10805.5	11055.6	11267.0
32.5°	7459.0	8680.9	9170.1	9633.3	10069.5	10471.0	10841.7	11195.4	11512.1	11821.9	12111.6
30°	8632.9	9170.1	9683.7	10172.1	10628.0	11066.7	11485.5	11924.0	12355.5	12770.4	13222.8
27.5°	9071.6	9633.3	10172.1	10680.9	11181.7	11666.4	12231.9	12798.3	13467.5	14054.4	15170.5
25°	9483.6	10069.5	10628.0	11181.7	11741.9	12388.8	13147.3	13949.4	15455.7	16904.2	19910.8
22.5°	9864.9	10471.0	11066.7	11666.4	12388.8	13265.3	14370.9	16326.8	19842.7	24610.9	31022.5
20°	10214.5	10841.7	11485.5	12231.9	13147.3	14370.9	16622.2	21709.7	28444.4	40260.6	51927.8
17.5°	10527.3	11195.4	11924.0	12798.3	13949.4	16326.8	21709.7	30702.9	45050.0	65056.5	84717.9
15°	10805.5	11512.1	12355.5	13467.5	15455.7	19842.7	28444.4	45050.0	69559.7	98953.1	132848.0
12.5°	11055.6	11821.9	12770.4	14054.4	16904.2	24610.9	40260.6	65056.5	98953.1	141080.4	193620.3
10°	11267.0	12111.6	13222.8	15170.5	19910.8	31022.5	51927.8	84717.9	132848.0	193620.3	260416.7
7.5°	11434.2	12341.4	13582.8	16065.1	22881.6	38470.9	66336.4	109106.8	168487.6	242826.9	328546.1
5°	11555.2	12508.1	13844.6	16717.9	25059.2	43962.2	77041.1	127891.0	198968.1	287715.4	384928.1
2.5°	11628.5	12609.1	14003.7	17115.5	26389.5	47331.0	83646.6	139577.2	218159.5	317278.6	423384.8
0°	11653.0	12643.0	14057.0	17249.0	26837.0	48466.9	85880.9	143547.8	224724.7	327576.6	437009.4
-2.5°	11628.5	12609.1	14003.7	17115.5	26389.5	47331.0	83646.6	139577.2	218159.5	317278.6	423384.8
-5°	11555.2	12508.1	13844.6	16717.9	25059.2	43962.2	77041.1	127891.0	198968.1	287715.4	384928.1
-7.5°	11434.2	12341.4	13582.8	16065.1	22881.6	38470.9	66336.4	109106.8	168487.6	242826.9	328546.1
-10°	11267.0	12111.6	13222.8	15170.5	19910.8	31022.5	51927.8	84717.9	132848.0	193620.3	260416.7
-12.5°	11055.6	11821.9	12770.4	14054.4	16904.2	24610.9	40260.6	65056.5	98953.1	141080.4	193620.3
-15°	10805.5	11512.1	12355.5	13467.5	15455.7	19842.7	28444.4	45050.0	69559.7	98953.1	132848.0
-17.5°	10527.3	11195.4	11924.0	12798.3	13949.4	16326.8	21709.7	30702.9	45050.0	65056.5	84717.9
-20°	10214.5	10841.7	11485.5	12231.9	13147.3	14370.9	16622.2	21709.7	28444.4	40260.6	51927.8



REPORT NUMBER: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-80-2S

CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
-22.5°	9864.9	10471.0	11066.7	11666.4	12388.8	13265.3	14370.9	16326.8	19842.7	24610.9	31022.5
-25°	9483.6	10069.5	10628.0	11181.7	11741.9	12388.8	13147.3	13949.4	15455.7	16904.2	19910.8
-27.5°	9071.6	9633.3	10172.1	10680.9	11181.7	11666.4	12231.9	12798.3	13467.5	14054.4	15170.5
-30°	8632.9	9170.1	9683.7	10172.1	10628.0	11066.7	11485.5	11924.0	12355.5	12770.4	13222.8
-32.5°	7459.0	8680.9	9170.1	9633.3	10069.5	10471.0	10841.7	11195.4	11512.1	11821.9	12111.6
-35°	6072.0	7459.0	8632.9	9071.6	9483.6	9864.9	10214.5	10527.3	10805.5	11055.6	11267.0
-37.5°	4440.5	5923.4	7201.3	8339.7	8876.9	9237.0	9565.0	9860.5	10122.4	10344.2	10528.9
-40°	3763.3	4151.2	5480.9	6691.5	7691.0	8590.7	8898.0	9175.1	9419.3	9627.7	9800.9
-42.5°	3556.7	3712.1	3862.8	4753.6	5852.7	6803.2	7591.6	8301.1	8702.3	8896.8	9058.1
-45°	3357.9	3495.3	3628.0	3760.6	3884.3	4700.6	5562.2	6335.9	6928.0	7423.6	7834.1
-47.5°	3055.1	3264.2	3404.5	3518.6	3627.3	3733.2	3829.6	4018.2	4646.2	5184.2	5629.2
-50°	2702.6	2912.5	3096.5	3269.0	3384.4	3475.0	3557.3	3633.9	3703.8	3763.6	3813.1
-52.5°	2322.8	2522.1	2711.8	2885.6	3033.7	3169.8	3293.3	3368.7	3428.1	3478.8	3520.7
-55°	1974.7	2141.8	2299.2	2458.4	2610.1	2749.3	2873.1	2974.3	3063.0	3138.6	3201.0
-57.5°	1647.6	1786.1	1920.5	2055.6	2180.6	2295.1	2405.6	2508.5	2598.5	2675.3	2738.6
-60°	1335.8	1454.0	1572.4	1683.4	1786.1	1880.3	1974.7	2058.8	2132.3	2195.0	2246.6
-62.5°	1039.0	1140.9	1241.8	1335.8	1422.6	1504.8	1581.8	1650.2	1710.1	1761.0	1802.9
-65°	774.2	858.4	937.4	1011.0	1079.3	1150.7	1215.2	1272.5	1322.6	1365.2	1400.3
-67.5°	542.0	606.1	666.2	722.0	779.4	834.7	884.6	928.9	967.6	1000.5	1027.6
-70°	340.9	386.4	429.1	472.4	517.8	559.3	596.7	629.9	658.9	683.5	703.8
-72.5°	184.9	207.7	232.7	267.2	299.0	328.0	354.1	377.3	397.5	414.6	428.8
-75°	87.7	97.7	115.9	132.8	148.3	162.5	175.2	186.5	196.4	204.8	211.7
-77.5°	54.5	59.5	64.2	68.5	72.5	76.2	79.5	82.4	84.9	87.1	88.8
-80°	39.3	40.9	42.4	43.7	45.0	46.1	47.1	48.0	48.8	49.5	50.0
-82.5°	27.4	28.4	29.3	30.2	31.0	31.8	32.5	33.0	33.6	34.0	34.4
-85°	16.7	17.2	17.8	18.3	18.7	19.2	19.5	19.9	20.2	20.4	20.6
-87.5°	7.4	7.6	7.8	8.0	8.2	8.3	8.5	8.6	8.7	8.8	8.9
-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: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-57-80-2S

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°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.7	8.6
85°	20.8	20.9	21.0	21.0	21.0	20.9	20.8	20.6	20.4	20.2	19.9
82.5°	34.6	34.8	35.0	35.0	35.0	34.8	34.6	34.4	34.0	33.6	33.0
80°	50.4	50.8	50.9	51.0	50.9	50.8	50.4	50.0	49.5	48.8	48.0
77.5°	90.2	91.2	91.8	92.0	91.8	91.2	90.2	88.8	87.1	84.9	82.4
75°	217.1	220.9	223.2	224.0	223.2	220.9	217.1	211.7	204.8	196.4	186.5
72.5°	439.8	447.7	452.4	454.0	452.4	447.7	439.8	428.8	414.6	397.5	377.3
70°	719.6	730.9	737.7	740.0	737.7	730.9	719.6	703.8	683.5	658.9	629.9
67.5°	1048.7	1063.9	1073.0	1076.0	1073.0	1063.9	1048.7	1027.6	1000.5	967.6	928.9
65°	1427.6	1447.3	1459.1	1463.0	1459.1	1447.3	1427.6	1400.3	1365.2	1322.6	1272.5
62.5°	1835.7	1859.2	1873.3	1878.0	1873.3	1859.2	1835.7	1802.9	1761.0	1710.1	1650.2
60°	2286.9	2315.8	2333.2	2339.0	2333.2	2315.8	2286.9	2246.6	2195.0	2132.3	2058.8
57.5°	2788.0	2823.5	2844.9	2852.0	2844.9	2823.5	2788.0	2738.6	2675.3	2598.5	2508.5
55°	3249.8	3284.9	3306.0	3313.0	3306.0	3284.9	3249.8	3201.0	3138.6	3063.0	2974.3
52.5°	3553.5	3577.1	3591.3	3596.0	3591.3	3577.1	3553.5	3520.7	3478.8	3428.1	3368.7
50°	3851.8	3879.6	3896.4	3902.0	3896.4	3879.6	3851.8	3813.1	3763.6	3703.8	3633.9
47.5°	5978.2	6229.2	6380.5	6431.0	6380.5	6229.2	5978.2	5629.2	5184.2	4646.2	4018.2
45°	8156.4	8388.4	8528.3	8575.0	8528.3	8388.4	8156.4	7834.1	7423.6	6928.0	6335.9
42.5°	9185.0	9276.4	9331.6	9350.0	9331.6	9276.4	9185.0	9058.1	8896.8	8702.3	8301.1
40°	9937.3	10035.7	10095.1	10115.0	10095.1	10035.7	9937.3	9800.9	9627.7	9419.3	9175.1
37.5°	10674.7	10780.0	10843.7	10865.0	10843.7	10780.0	10674.7	10528.9	10344.2	10122.4	9860.5
35°	11434.2	11555.2	11628.5	11653.0	11628.5	11555.2	11434.2	11267.0	11055.6	10805.5	10527.3
32.5°	12341.4	12508.1	12609.1	12643.0	12609.1	12508.1	12341.4	12111.6	11821.9	11512.1	11195.4
30°	13582.8	13844.6	14003.7	14057.0	14003.7	13844.6	13582.8	13222.8	12770.4	12355.5	11924.0
27.5°	16065.1	16717.9	17115.5	17249.0	17115.5	16717.9	16065.1	15170.5	14054.4	13467.5	12798.3
25°	22881.6	25059.2	26389.5	26837.0	26389.5	25059.2	22881.6	19910.8	16904.2	15455.7	13949.4
22.5°	38470.9	43962.2	47331.0	48466.9	47331.0	43962.2	38470.9	31022.5	24610.9	19842.7	16326.8
20°	66336.4	77041.1	83646.6	85880.9	83646.6	77041.1	66336.4	51927.8	40260.6	28444.4	21709.7
17.5°	109106.8	127891.0	139577.2	143547.8	139577.2	127891.0	109106.8	84717.9	65056.5	45050.0	30702.9
15°	168487.6	198968.1	218159.5	224724.7	218159.5	198968.1	168487.6	132848.0	98953.1	69559.7	45050.0
12.5°	242826.9	287715.4	317278.6	327576.6	317278.6	287715.4	242826.9	193620.3	141080.4	98953.1	65056.5
10°	328546.1	384928.1	423384.8	437009.4	423384.8	384928.1	328546.1	260416.7	193620.3	132848.0	84717.9
7.5°	410562.7	483284.7	536560.9	555518.2	536560.9	483284.7	410562.7	328546.1	242826.9	168487.6	109106.8
5°	483284.7	575884.9	632953.5	652106.1	632953.5	575884.9	483284.7	384928.1	287715.4	198968.1	127891.0
2.5°	536560.9	632953.5	694089.3	723263.0	694089.3	632953.5	536560.9	423384.8	317278.6	218159.5	139577.2
0°	555518.2	652106.1	723263.0	768445.9	723263.0	652106.1	555518.2	437009.4	327576.6	224724.7	143547.8
-2.5°	536560.9	632953.5	694089.3	723263.0	694089.3	632953.5	536560.9	423384.8	317278.6	218159.5	139577.2
-5°	483284.7	575884.9	632953.5	652106.1	632953.5	575884.9	483284.7	384928.1	287715.4	198968.1	127891.0
-7.5°	410562.7	483284.7	536560.9	555518.2	536560.9	483284.7	410562.7	328546.1	242826.9	168487.6	109106.8
-10°	328546.1	384928.1	423384.8	437009.4	423384.8	384928.1	328546.1	260416.7	193620.3	132848.0	84717.9
-12.5°	242826.9	287715.4	317278.6	327576.6	317278.6	287715.4	242826.9	193620.3	141080.4	98953.1	65056.5
-15°	168487.6	198968.1	218159.5	224724.7	218159.5	198968.1	168487.6	132848.0	98953.1	69559.7	45050.0
-17.5°	109106.8	127891.0	139577.2	143547.8	139577.2	127891.0	109106.8	84717.9	65056.5	45050.0	30702.9
-20°	66336.4	77041.1	83646.6	85880.9	83646.6	77041.1	66336.4	51927.8	40260.6	28444.4	21709.7



REPORT NUMBER: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-80-2S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	38470.9	43962.2	47331.0	48466.9	47331.0	43962.2	38470.9	31022.5	24610.9	19842.7	16326.8
-25°	22881.6	25059.2	26389.5	26837.0	26389.5	25059.2	22881.6	19910.8	16904.2	15455.7	13949.4
-27.5°	16065.1	16717.9	17115.5	17249.0	17115.5	16717.9	16065.1	15170.5	14054.4	13467.5	12798.3
-30°	13582.8	13844.6	14003.7	14057.0	14003.7	13844.6	13582.8	13222.8	12770.4	12355.5	11924.0
-32.5°	12341.4	12508.1	12609.1	12643.0	12609.1	12508.1	12341.4	12111.6	11821.9	11512.1	11195.4
-35°	11434.2	11555.2	11628.5	11653.0	11628.5	11555.2	11434.2	11267.0	11055.6	10805.5	10527.3
-37.5°	10674.7	10780.0	10843.7	10865.0	10843.7	10780.0	10674.7	10528.9	10344.2	10122.4	9860.5
-40°	9937.3	10035.7	10095.1	10115.0	10095.1	10035.7	9937.3	9800.9	9627.7	9419.3	9175.1
-42.5°	9185.0	9276.4	9331.6	9350.0	9331.6	9276.4	9185.0	9058.1	8896.8	8702.3	8301.1
-45°	8156.4	8388.4	8528.3	8575.0	8528.3	8388.4	8156.4	7834.1	7423.6	6928.0	6335.9
-47.5°	5978.2	6229.2	6380.5	6431.0	6380.5	6229.2	5978.2	5629.2	5184.2	4646.2	4018.2
-50°	3851.8	3879.6	3896.4	3902.0	3896.4	3879.6	3851.8	3813.1	3763.6	3703.8	3633.9
-52.5°	3553.5	3577.1	3591.3	3596.0	3591.3	3577.1	3553.5	3520.7	3478.8	3428.1	3368.7
-55°	3249.8	3284.9	3306.0	3313.0	3306.0	3284.9	3249.8	3201.0	3138.6	3063.0	2974.3
-57.5°	2788.0	2823.5	2844.9	2852.0	2844.9	2823.5	2788.0	2738.6	2675.3	2598.5	2508.5
-60°	2286.9	2315.8	2333.2	2339.0	2333.2	2315.8	2286.9	2246.6	2195.0	2132.3	2058.8
-62.5°	1835.7	1859.2	1873.3	1878.0	1873.3	1859.2	1835.7	1802.9	1761.0	1710.1	1650.2
-65°	1427.6	1447.3	1459.1	1463.0	1459.1	1447.3	1427.6	1400.3	1365.2	1322.6	1272.5
-67.5°	1048.7	1063.9	1073.0	1076.0	1073.0	1063.9	1048.7	1027.6	1000.5	967.6	928.9
-70°	719.6	730.9	737.7	740.0	737.7	730.9	719.6	703.8	683.5	658.9	629.9
-72.5°	439.8	447.7	452.4	454.0	452.4	447.7	439.8	428.8	414.6	397.5	377.3
-75°	217.1	220.9	223.2	224.0	223.2	220.9	217.1	211.7	204.8	196.4	186.5
-77.5°	90.2	91.2	91.8	92.0	91.8	91.2	90.2	88.8	87.1	84.9	82.4
-80°	50.4	50.8	50.9	51.0	50.9	50.8	50.4	50.0	49.5	48.8	48.0
-82.5°	34.6	34.8	35.0	35.0	35.0	34.8	34.6	34.4	34.0	33.6	33.0
-85°	20.8	20.9	21.0	21.0	21.0	20.9	20.8	20.6	20.4	20.2	19.9
-87.5°	8.9	9.0	9.0	9.0	9.0	9.0	8.9	8.9	8.8	8.7	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: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-57-80-2S

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°	8.5	8.3	8.2	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.4
85°	19.5	19.2	18.7	18.3	17.8	17.2	16.7	16.0	15.4	14.7	14.0
82.5°	32.5	31.8	31.0	30.2	29.3	28.4	27.4	26.3	25.1	23.9	22.7
80°	47.1	46.1	45.0	43.7	42.4	40.9	39.3	37.7	35.9	34.2	32.5
77.5°	79.5	76.2	72.5	68.5	64.2	59.5	54.5	50.3	48.1	45.8	43.3
75°	175.2	162.5	148.3	132.8	115.9	97.7	87.7	81.3	74.5	67.4	59.9
72.5°	354.1	328.0	299.0	267.2	232.7	207.7	184.9	160.7	135.2	108.3	88.3
70°	596.7	559.3	517.8	472.4	429.1	386.4	340.9	292.5	241.4	203.2	171.0
67.5°	884.6	834.7	779.4	722.0	666.2	606.1	542.0	473.9	412.3	351.7	288.4
65°	1215.2	1150.7	1079.3	1011.0	937.4	858.4	774.2	693.1	613.0	528.9	443.7
62.5°	1581.8	1504.8	1422.6	1335.8	1241.8	1140.9	1039.0	940.2	836.1	729.0	632.1
60°	1974.7	1880.3	1786.1	1683.4	1572.4	1454.0	1335.8	1210.8	1079.3	959.3	834.7
57.5°	2405.6	2295.1	2180.6	2055.6	1920.5	1786.1	1647.6	1501.3	1355.4	1205.6	1053.0
55°	2873.1	2749.3	2610.1	2458.4	2299.2	2141.8	1974.7	1806.3	1639.7	1465.8	1297.0
52.5°	3293.3	3169.8	3033.7	2885.6	2711.8	2522.1	2322.8	2132.3	1932.7	1740.0	1545.5
50°	3557.3	3475.0	3384.4	3269.0	3096.5	2912.5	2702.6	2474.6	2246.6	2023.4	1800.6
47.5°	3829.6	3733.2	3627.3	3518.6	3404.5	3264.2	3055.1	2833.6	2578.4	2315.8	2069.1
45°	5562.2	4700.6	3884.3	3760.6	3628.0	3495.3	3357.9	3151.5	2906.9	2630.7	2339.0
42.5°	7591.6	6803.2	5852.7	4753.6	3862.8	3712.1	3556.7	3403.3	3200.1	2930.8	2630.7
40°	8898.0	8590.7	7691.0	6691.5	5480.9	4151.2	3763.3	3587.7	3418.5	3200.1	2906.9
37.5°	9565.0	9237.0	8876.9	8339.7	7201.3	5923.4	4440.5	3780.4	3587.7	3403.3	3151.5
35°	10214.5	9864.9	9483.6	9071.6	8632.9	7459.0	6072.0	4440.5	3763.3	3556.7	3357.9
32.5°	10841.7	10471.0	10069.5	9633.3	9170.1	8680.9	7459.0	5923.4	4151.2	3712.1	3495.3
30°	11485.5	11066.7	10628.0	10172.1	9683.7	9170.1	8632.9	7201.3	5480.9	3862.8	3628.0
27.5°	12231.9	11666.4	11181.7	10680.9	10172.1	9633.3	9071.6	8339.7	6691.5	4753.6	3760.6
25°	13147.3	12388.8	11741.9	11181.7	10628.0	10069.5	9483.6	8876.9	7691.0	5852.7	3884.3
22.5°	14370.9	13265.3	12388.8	11666.4	11066.7	10471.0	9864.9	9237.0	8590.7	6803.2	4700.6
20°	16622.2	14370.9	13147.3	12231.9	11485.5	10841.7	10214.5	9565.0	8898.0	7591.6	5562.2
17.5°	21709.7	16326.8	13949.4	12798.3	11924.0	11195.4	10527.3	9860.5	9175.1	8301.1	6335.9
15°	28444.4	19842.7	15455.7	13467.5	12355.5	11512.1	10805.5	10122.4	9419.3	8702.3	6928.0
12.5°	40260.6	24610.9	16904.2	14054.4	12770.4	11821.9	11055.6	10344.2	9627.7	8896.8	7423.6
10°	51927.8	31022.5	19910.8	15170.5	13222.8	12111.6	11267.0	10528.9	9800.9	9058.1	7834.1
7.5°	66336.4	38470.9	22881.6	16065.1	13582.8	12341.4	11434.2	10674.7	9937.3	9185.0	8156.4
5°	77041.1	43962.2	25059.2	16717.9	13844.6	12508.1	11555.2	10780.0	10035.7	9276.4	8388.4
2.5°	83646.6	47331.0	26389.5	17115.5	14003.7	12609.1	11628.5	10843.7	10095.1	9331.6	8528.3
0°	85880.9	48466.9	26837.0	17249.0	14057.0	12643.0	11653.0	10865.0	10115.0	9350.0	8575.0
-2.5°	83646.6	47331.0	26389.5	17115.5	14003.7	12609.1	11628.5	10843.7	10095.1	9331.6	8528.3
-5°	77041.1	43962.2	25059.2	16717.9	13844.6	12508.1	11555.2	10780.0	10035.7	9276.4	8388.4
-7.5°	66336.4	38470.9	22881.6	16065.1	13582.8	12341.4	11434.2	10674.7	9937.3	9185.0	8156.4
-10°	51927.8	31022.5	19910.8	15170.5	13222.8	12111.6	11267.0	10528.9	9800.9	9058.1	7834.1
-12.5°	40260.6	24610.9	16904.2	14054.4	12770.4	11821.9	11055.6	10344.2	9627.7	8896.8	7423.6
-15°	28444.4	19842.7	15455.7	13467.5	12355.5	11512.1	10805.5	10122.4	9419.3	8702.3	6928.0
-17.5°	21709.7	16326.8	13949.4	12798.3	11924.0	11195.4	10527.3	9860.5	9175.1	8301.1	6335.9
-20°	16622.2	14370.9	13147.3	12231.9	11485.5	10841.7	10214.5	9565.0	8898.0	7591.6	5562.2

Classified

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

Scaled Data Report



REPORT NUMBER: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)

CATALOG NUMBER: EPH-LS16-1200L-57-80-2S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	14370.9	13265.3	12388.8	11666.4	11066.7	10471.0	9864.9	9237.0	8590.7	6803.2	4700.6
-25°	13147.3	12388.8	11741.9	11181.7	10628.0	10069.5	9483.6	8876.9	7691.0	5852.7	3884.3
-27.5°	12231.9	11666.4	11181.7	10680.9	10172.1	9633.3	9071.6	8339.7	6691.5	4753.6	3760.6
-30°	11485.5	11066.7	10628.0	10172.1	9683.7	9170.1	8632.9	7201.3	5480.9	3862.8	3628.0
-32.5°	10841.7	10471.0	10069.5	9633.3	9170.1	8680.9	7459.0	5923.4	4151.2	3712.1	3495.3
-35°	10214.5	9864.9	9483.6	9071.6	8632.9	7459.0	6072.0	4440.5	3763.3	3556.7	3357.9
-37.5°	9565.0	9237.0	8876.9	8339.7	7201.3	5923.4	4440.5	3780.4	3587.7	3403.3	3151.5
-40°	8898.0	8590.7	7691.0	6691.5	5480.9	4151.2	3763.3	3587.7	3418.5	3200.1	2906.9
-42.5°	7591.6	6803.2	5852.7	4753.6	3862.8	3712.1	3556.7	3403.3	3200.1	2930.8	2630.7
-45°	5562.2	4700.6	3884.3	3760.6	3628.0	3495.3	3357.9	3151.5	2906.9	2630.7	2339.0
-47.5°	3829.6	3733.2	3627.3	3518.6	3404.5	3264.2	3055.1	2833.6	2578.4	2315.8	2069.1
-50°	3557.3	3475.0	3384.4	3269.0	3096.5	2912.5	2702.6	2474.6	2246.6	2023.4	1800.6
-52.5°	3293.3	3169.8	3033.7	2885.6	2711.8	2522.1	2322.8	2132.3	1932.7	1740.0	1545.5
-55°	2873.1	2749.3	2610.1	2458.4	2299.2	2141.8	1974.7	1806.3	1639.7	1465.8	1297.0
-57.5°	2405.6	2295.1	2180.6	2055.6	1920.5	1786.1	1647.6	1501.3	1355.4	1205.6	1053.0
-60°	1974.7	1880.3	1786.1	1683.4	1572.4	1454.0	1335.8	1210.8	1079.3	959.3	834.7
-62.5°	1581.8	1504.8	1422.6	1335.8	1241.8	1140.9	1039.0	940.2	836.1	729.0	632.1
-65°	1215.2	1150.7	1079.3	1011.0	937.4	858.4	774.2	693.1	613.0	528.9	443.7
-67.5°	884.6	834.7	779.4	722.0	666.2	606.1	542.0	473.9	412.3	351.7	288.4
-70°	596.7	559.3	517.8	472.4	429.1	386.4	340.9	292.5	241.4	203.2	171.0
-72.5°	354.1	328.0	299.0	267.2	232.7	207.7	184.9	160.7	135.2	108.3	88.3
-75°	175.2	162.5	148.3	132.8	115.9	97.7	87.7	81.3	74.5	67.4	59.9
-77.5°	79.5	76.2	72.5	68.5	64.2	59.5	54.5	50.3	48.1	45.8	43.3
-80°	47.1	46.1	45.0	43.7	42.4	40.9	39.3	37.7	35.9	34.2	32.5
-82.5°	32.5	31.8	31.0	30.2	29.3	28.4	27.4	26.3	25.1	23.9	22.7
-85°	19.5	19.2	18.7	18.3	17.8	17.2	16.7	16.0	15.4	14.7	14.0
-87.5°	8.5	8.3	8.2	8.0	7.8	7.6	7.4	7.1	6.9	6.6	6.4
-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: P601488 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS16-1200L-57-80-2S

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°	6.1	5.8	5.5	5.2	4.8	4.5	4.2	3.8	3.4	3.1	2.7
85°	13.2	12.4	11.6	10.8	9.9	9.0	8.3	7.6	6.9	6.1	5.4
82.5°	21.3	20.1	18.9	17.6	16.3	15.0	13.6	12.2	10.7	9.3	8.1
80°	30.7	28.9	27.0	25.0	23.0	20.9	19.1	17.2	15.3	13.3	11.4
77.5°	40.8	38.2	35.5	32.9	30.4	27.8	25.1	22.4	19.8	17.4	14.9
75°	52.2	48.3	45.0	41.6	38.2	34.6	31.4	28.2	24.8	21.4	18.4
72.5°	79.2	69.8	60.0	50.6	46.5	42.3	38.1	33.9	30.0	26.1	22.1
70°	137.4	102.6	84.1	72.5	60.7	50.0	45.2	40.2	35.1	30.6	26.1
67.5°	223.1	183.9	143.3	101.5	81.6	67.9	53.9	46.6	40.9	35.1	30.0
65°	370.3	294.2	219.2	172.7	125.0	87.1	71.6	55.7	46.6	40.2	33.9
62.5°	531.4	432.5	346.0	256.9	190.5	136.8	88.9	71.6	53.9	45.2	38.1
60°	710.6	596.7	479.3	377.3	277.7	196.4	136.8	87.1	67.9	50.0	42.3
57.5°	912.6	767.5	636.1	505.4	387.7	277.7	190.5	125.0	81.6	60.7	46.5
55°	1122.3	959.7	798.7	649.3	505.4	377.3	256.9	172.7	101.5	72.5	50.6
52.5°	1352.3	1158.9	975.5	798.7	636.1	479.3	346.0	219.2	143.3	84.1	60.0
50°	1585.6	1370.8	1158.9	959.7	767.5	596.7	432.5	294.2	183.9	102.6	69.8
47.5°	1821.0	1585.6	1352.3	1122.3	912.6	710.6	531.4	370.3	223.1	137.4	79.2
45°	2069.1	1800.6	1545.5	1297.0	1053.0	834.7	632.1	443.7	288.4	171.0	88.3
42.5°	2315.8	2023.4	1740.0	1465.8	1205.6	959.3	729.0	528.9	351.7	203.2	108.3
40°	2578.4	2246.6	1932.7	1639.7	1355.4	1079.3	836.1	613.0	412.3	241.4	135.2
37.5°	2833.6	2474.6	2132.3	1806.3	1501.3	1210.8	940.2	693.1	473.9	292.5	160.7
35°	3055.1	2702.6	2322.8	1974.7	1647.6	1335.8	1039.0	774.2	542.0	340.9	184.9
32.5°	3264.2	2912.5	2522.1	2141.8	1786.1	1454.0	1140.9	858.4	606.1	386.4	207.7
30°	3404.5	3096.5	2711.8	2299.2	1920.5	1572.4	1241.8	937.4	666.2	429.1	232.7
27.5°	3518.6	3269.0	2885.6	2458.4	2055.6	1683.4	1335.8	1011.0	722.0	472.4	267.2
25°	3627.3	3384.4	3033.7	2610.1	2180.6	1786.1	1422.6	1079.3	779.4	517.8	299.0
22.5°	3733.2	3475.0	3169.8	2749.3	2295.1	1880.3	1504.8	1150.7	834.7	559.3	328.0
20°	3829.6	3557.3	3293.3	2873.1	2405.6	1974.7	1581.8	1215.2	884.6	596.7	354.1
17.5°	4018.2	3633.9	3368.7	2974.3	2508.5	2058.8	1650.2	1272.5	928.9	629.9	377.3
15°	4646.2	3703.8	3428.1	3063.0	2598.5	2132.3	1710.1	1322.6	967.6	658.9	397.5
12.5°	5184.2	3763.6	3478.8	3138.6	2675.3	2195.0	1761.0	1365.2	1000.5	683.5	414.6
10°	5629.2	3813.1	3520.7	3201.0	2738.6	2246.6	1802.9	1400.3	1027.6	703.8	428.8
7.5°	5978.2	3851.8	3553.5	3249.8	2788.0	2286.9	1835.7	1427.6	1048.7	719.6	439.8
5°	6229.2	3879.6	3577.1	3284.9	2823.5	2315.8	1859.2	1447.3	1063.9	730.9	447.7
2.5°	6380.5	3896.4	3591.3	3306.0	2844.9	2333.2	1873.3	1459.1	1073.0	737.7	452.4
0°	6431.0	3902.0	3596.0	3313.0	2852.0	2339.0	1878.0	1463.0	1076.0	740.0	454.0
-2.5°	6380.5	3896.4	3591.3	3306.0	2844.9	2333.2	1873.3	1459.1	1073.0	737.7	452.4
-5°	6229.2	3879.6	3577.1	3284.9	2823.5	2315.8	1859.2	1447.3	1063.9	730.9	447.7
-7.5°	5978.2	3851.8	3553.5	3249.8	2788.0	2286.9	1835.7	1427.6	1048.7	719.6	439.8
-10°	5629.2	3813.1	3520.7	3201.0	2738.6	2246.6	1802.9	1400.3	1027.6	703.8	428.8
-12.5°	5184.2	3763.6	3478.8	3138.6	2675.3	2195.0	1761.0	1365.2	1000.5	683.5	414.6
-15°	4646.2	3703.8	3428.1	3063.0	2598.5	2132.3	1710.1	1322.6	967.6	658.9	397.5
-17.5°	4018.2	3633.9	3368.7	2974.3	2508.5	2058.8	1650.2	1272.5	928.9	629.9	377.3
-20°	3829.6	3557.3	3293.3	2873.1	2405.6	1974.7	1581.8	1215.2	884.6	596.7	354.1



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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°	3733.2	3475.0	3169.8	2749.3	2295.1	1880.3	1504.8	1150.7	834.7	559.3	328.0
-25°	3627.3	3384.4	3033.7	2610.1	2180.6	1786.1	1422.6	1079.3	779.4	517.8	299.0
-27.5°	3518.6	3269.0	2885.6	2458.4	2055.6	1683.4	1335.8	1011.0	722.0	472.4	267.2
-30°	3404.5	3096.5	2711.8	2299.2	1920.5	1572.4	1241.8	937.4	666.2	429.1	232.7
-32.5°	3264.2	2912.5	2522.1	2141.8	1786.1	1454.0	1140.9	858.4	606.1	386.4	207.7
-35°	3055.1	2702.6	2322.8	1974.7	1647.6	1335.8	1039.0	774.2	542.0	340.9	184.9
-37.5°	2833.6	2474.6	2132.3	1806.3	1501.3	1210.8	940.2	693.1	473.9	292.5	160.7
-40°	2578.4	2246.6	1932.7	1639.7	1355.4	1079.3	836.1	613.0	412.3	241.4	135.2
-42.5°	2315.8	2023.4	1740.0	1465.8	1205.6	959.3	729.0	528.9	351.7	203.2	108.3
-45°	2069.1	1800.6	1545.5	1297.0	1053.0	834.7	632.1	443.7	288.4	171.0	88.3
-47.5°	1821.0	1585.6	1352.3	1122.3	912.6	710.6	531.4	370.3	223.1	137.4	79.2
-50°	1585.6	1370.8	1158.9	959.7	767.5	596.7	432.5	294.2	183.9	102.6	69.8
-52.5°	1352.3	1158.9	975.5	798.7	636.1	479.3	346.0	219.2	143.3	84.1	60.0
-55°	1122.3	959.7	798.7	649.3	505.4	377.3	256.9	172.7	101.5	72.5	50.6
-57.5°	912.6	767.5	636.1	505.4	387.7	277.7	190.5	125.0	81.6	60.7	46.5
-60°	710.6	596.7	479.3	377.3	277.7	196.4	136.8	87.1	67.9	50.0	42.3
-62.5°	531.4	432.5	346.0	256.9	190.5	136.8	88.9	71.6	53.9	45.2	38.1
-65°	370.3	294.2	219.2	172.7	125.0	87.1	71.6	55.7	46.6	40.2	33.9
-67.5°	223.1	183.9	143.3	101.5	81.6	67.9	53.9	46.6	40.9	35.1	30.0
-70°	137.4	102.6	84.1	72.5	60.7	50.0	45.2	40.2	35.1	30.6	26.1
-72.5°	79.2	69.8	60.0	50.6	46.5	42.3	38.1	33.9	30.0	26.1	22.1
-75°	52.2	48.3	45.0	41.6	38.2	34.6	31.4	28.2	24.8	21.4	18.4
-77.5°	40.8	38.2	35.5	32.9	30.4	27.8	25.1	22.4	19.8	17.4	14.9
-80°	30.7	28.9	27.0	25.0	23.0	20.9	19.1	17.2	15.3	13.3	11.4
-82.5°	21.3	20.1	18.9	17.6	16.3	15.0	13.6	12.2	10.7	9.3	8.1
-85°	13.2	12.4	11.6	10.8	9.9	9.0	8.3	7.6	6.9	6.1	5.4
-87.5°	6.1	5.8	5.5	5.2	4.8	4.5	4.2	3.8	3.4	3.1	2.7
-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°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
85°	4.7	3.9	3.1	2.3	1.6	0.8	0.0
82.5°	7.0	5.8	4.7	3.5	2.3	1.2	0.0
80°	9.4	7.8	6.2	4.7	3.1	1.6	0.0
77.5°	12.4	9.9	7.8	5.8	3.9	1.9	0.0
75°	15.4	12.4	9.4	7.0	4.7	2.3	0.0
72.5°	18.4	14.9	11.4	8.1	5.4	2.7	0.0
70°	21.4	17.4	13.3	9.3	6.1	3.1	0.0
67.5°	24.8	19.8	15.3	10.7	6.9	3.4	0.0
65°	28.2	22.4	17.2	12.2	7.6	3.8	0.0
62.5°	31.4	25.1	19.1	13.6	8.3	4.2	0.0
60°	34.6	27.8	20.9	15.0	9.0	4.5	0.0
57.5°	38.2	30.4	23.0	16.3	9.9	4.8	0.0
55°	41.6	32.9	25.0	17.6	10.8	5.2	0.0
52.5°	45.0	35.5	27.0	18.9	11.6	5.5	0.0
50°	48.3	38.2	28.9	20.1	12.4	5.8	0.0
47.5°	52.2	40.8	30.7	21.3	13.2	6.1	0.0
45°	59.9	43.3	32.5	22.7	14.0	6.4	0.0
42.5°	67.4	45.8	34.2	23.9	14.7	6.6	0.0
40°	74.5	48.1	35.9	25.1	15.4	6.9	0.0
37.5°	81.3	50.3	37.7	26.3	16.0	7.1	0.0
35°	87.7	54.5	39.3	27.4	16.7	7.4	0.0
32.5°	97.7	59.5	40.9	28.4	17.2	7.6	0.0
30°	115.9	64.2	42.4	29.3	17.8	7.8	0.0
27.5°	132.8	68.5	43.7	30.2	18.3	8.0	0.0
25°	148.3	72.5	45.0	31.0	18.7	8.2	0.0
22.5°	162.5	76.2	46.1	31.8	19.2	8.3	0.0
20°	175.2	79.5	47.1	32.5	19.5	8.5	0.0
17.5°	186.5	82.4	48.0	33.0	19.9	8.6	0.0
15°	196.4	84.9	48.8	33.6	20.2	8.7	0.0
12.5°	204.8	87.1	49.5	34.0	20.4	8.8	0.0
10°	211.7	88.8	50.0	34.4	20.6	8.9	0.0
7.5°	217.1	90.2	50.4	34.6	20.8	8.9	0.0
5°	220.9	91.2	50.8	34.8	20.9	9.0	0.0
2.5°	223.2	91.8	50.9	35.0	21.0	9.0	0.0
0°	224.0	92.0	51.0	35.0	21.0	9.0	0.0
-2.5°	223.2	91.8	50.9	35.0	21.0	9.0	0.0
-5°	220.9	91.2	50.8	34.8	20.9	9.0	0.0
-7.5°	217.1	90.2	50.4	34.6	20.8	8.9	0.0
-10°	211.7	88.8	50.0	34.4	20.6	8.9	0.0
-12.5°	204.8	87.1	49.5	34.0	20.4	8.8	0.0
-15°	196.4	84.9	48.8	33.6	20.2	8.7	0.0
-17.5°	186.5	82.4	48.0	33.0	19.9	8.6	0.0
-20°	175.2	79.5	47.1	32.5	19.5	8.5	0.0

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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	162.5	76.2	46.1	31.8	19.2	8.3	0.0
-25°	148.3	72.5	45.0	31.0	18.7	8.2	0.0
-27.5°	132.8	68.5	43.7	30.2	18.3	8.0	0.0
-30°	115.9	64.2	42.4	29.3	17.8	7.8	0.0
-32.5°	97.7	59.5	40.9	28.4	17.2	7.6	0.0
-35°	87.7	54.5	39.3	27.4	16.7	7.4	0.0
-37.5°	81.3	50.3	37.7	26.3	16.0	7.1	0.0
-40°	74.5	48.1	35.9	25.1	15.4	6.9	0.0
-42.5°	67.4	45.8	34.2	23.9	14.7	6.6	0.0
-45°	59.9	43.3	32.5	22.7	14.0	6.4	0.0
-47.5°	52.2	40.8	30.7	21.3	13.2	6.1	0.0
-50°	48.3	38.2	28.9	20.1	12.4	5.8	0.0
-52.5°	45.0	35.5	27.0	18.9	11.6	5.5	0.0
-55°	41.6	32.9	25.0	17.6	10.8	5.2	0.0
-57.5°	38.2	30.4	23.0	16.3	9.9	4.8	0.0
-60°	34.6	27.8	20.9	15.0	9.0	4.5	0.0
-62.5°	31.4	25.1	19.1	13.6	8.3	4.2	0.0
-65°	28.2	22.4	17.2	12.2	7.6	3.8	0.0
-67.5°	24.8	19.8	15.3	10.7	6.9	3.4	0.0
-70°	21.4	17.4	13.3	9.3	6.1	3.1	0.0
-72.5°	18.4	14.9	11.4	8.1	5.4	2.7	0.0
-75°	15.4	12.4	9.4	7.0	4.7	2.3	0.0
-77.5°	12.4	9.9	7.8	5.8	3.9	1.9	0.0
-80°	9.4	7.8	6.2	4.7	3.1	1.6	0.0
-82.5°	7.0	5.8	4.7	3.5	2.3	1.2	0.0
-85°	4.7	3.9	3.1	2.3	1.6	0.8	0.0
-87.5°	2.3	1.9	1.6	1.2	0.8	0.4	0.0
-90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)