

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: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0680R-40-80-3S-HEG-S**

Issue Date: 8/15/2023

Test Information

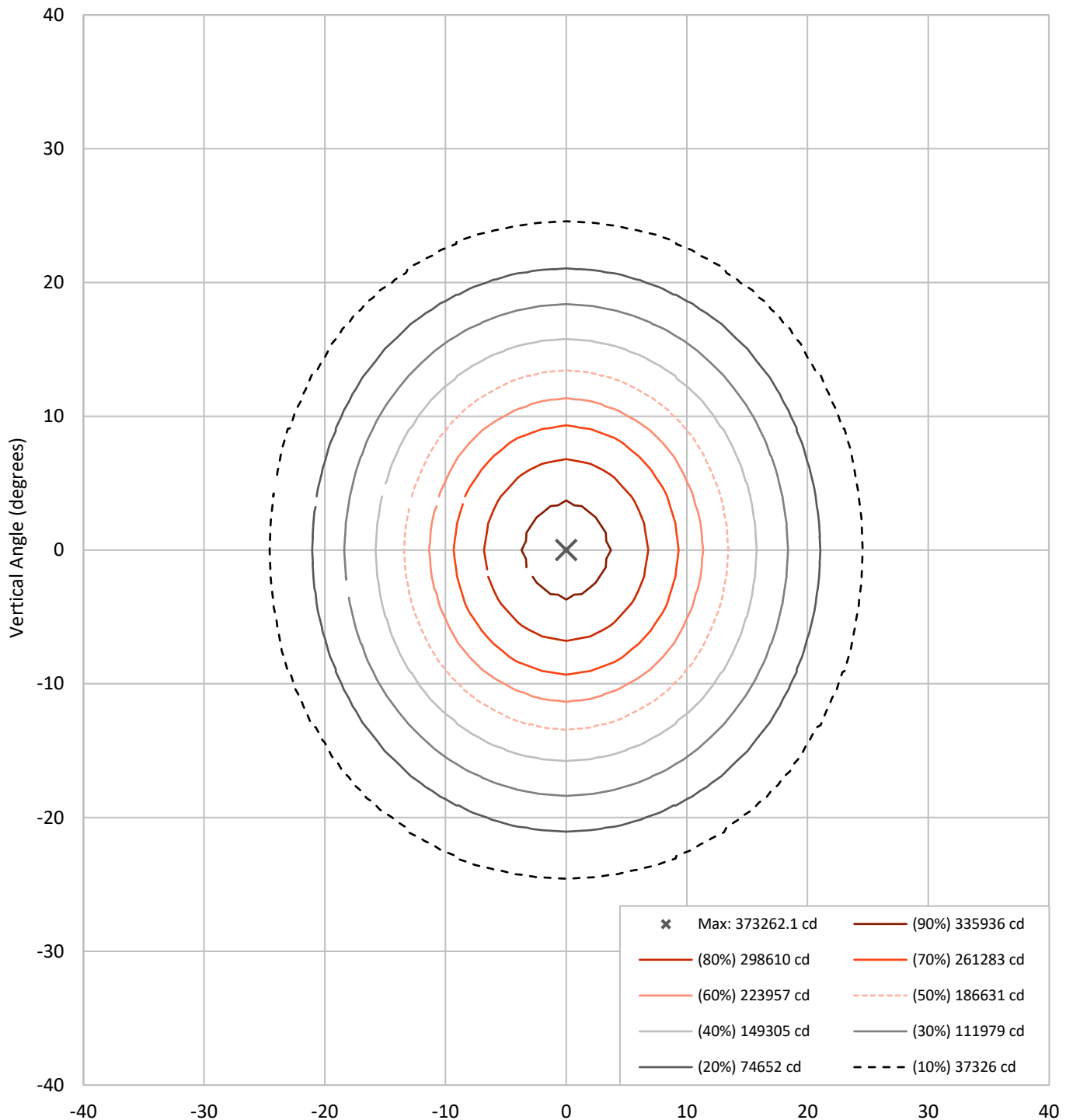
Test Method: LM-79-08
Report Number: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-906-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/15/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0680R-40-80-3S-HEG-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 3S BEAM SHAPE
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	100813.2 lumens	Max Intensity:	373262.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	144.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	26.9°H x 26.9°V	Field Angle (10%):	48.9°H x 48.9°V
Beam Lumens:	43711 lumens	Field Lumens:	83684.8 lumens
Beam Efficiency:	43.4%	Field Efficiency:	83.0%
Input Watts (W):	697.5		
Input Voltage (V):	NR		
Input Current (Ain):	NR		
Voltage Rise (V):	NR		
Power Factor:	NR		
Total Harmonic Distortion (THDi):	NR		
Frequency (hertz):	60		
Stabilization Time:	NR		
Operation Time:	NR		
Ambient Temperature (°C):	NR		
Test Distance:	25 FT		

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Iso-Candela Plot





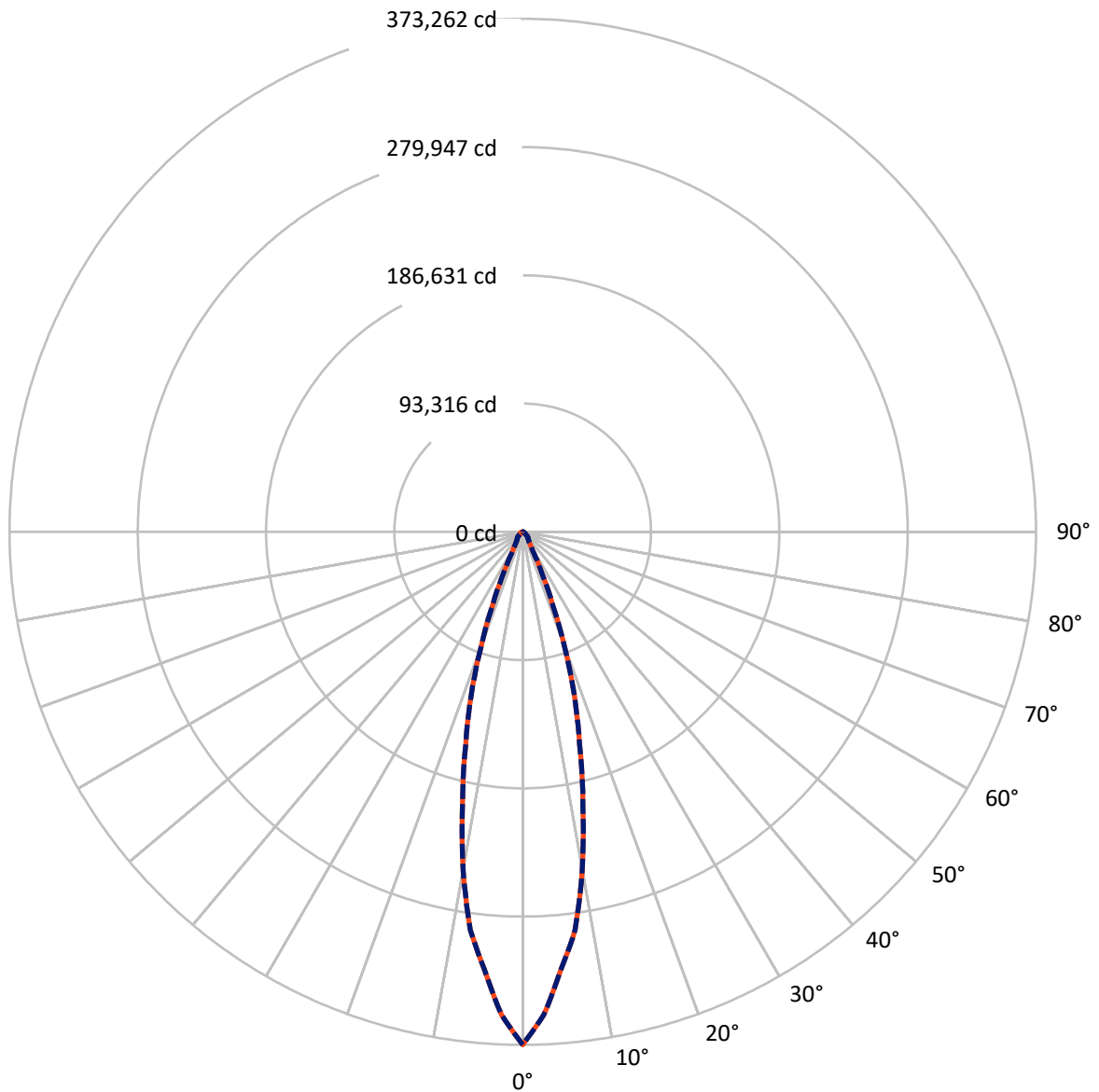
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Lumen Table

90																
80	0.1	0.9		3.5		9.1		12.1		9.1		3.5		0.9		0.1
70																
60	0.4	0.5	2.2	6.7	13.2	20.0	25.6	28.7	28.7	25.6	20.0	13.2	6.7	2.2	0.5	0.4
50		1.7	7.8	18.4	31.5	45.0	55.8	61.6	61.6	55.8	45.0	31.5	18.4	7.8	1.7	
40	1.2	4.1	15.0	31.9	52.8	83.1	119.0	139.6	139.6	119.0	83.1	52.8	31.9	15.0	4.1	1.2
30		7.0	22.3	45.7	93.2	153.5	197.4	231.9	231.9	197.4	153.5	93.2	45.7	22.3	7.0	
20	2.7	9.6	28.8	65.4	138.9	220.0	508.6	1046.0	1046.0	508.6	220.0	138.9	65.4	28.8	9.6	2.7
10		11.5	33.5	88.1	168.0	480.1	2225.0	4455.6	4455.6	2225.0	480.1	168.0	88.1	33.5	11.5	
0	3.4	12.5	35.9	100.1	191.7	962.9	4333.6	8546.8	8546.8	4333.6	962.9	191.7	100.1	35.9	12.5	3.4
-10		12.5	35.9	100.1	191.7	962.9	4333.6	8546.8	8546.8	4333.6	962.9	191.7	100.1	35.9	12.5	
-20	2.7	11.5	33.5	88.1	168.0	480.1	2225.0	4455.6	4455.6	2225.0	480.1	168.0	88.1	33.5	11.5	2.7
-30		9.6	28.8	65.4	138.9	220.0	508.6	1046.0	1046.0	508.6	220.0	138.9	65.4	28.8	9.6	
-40	1.2	7.0	22.3	45.7	93.2	153.5	197.4	231.9	231.9	197.4	153.5	93.2	45.7	22.3	7.0	1.2
-50		4.1	15.0	31.9	52.8	83.1	119.0	139.6	139.6	119.0	83.1	52.8	31.9	15.0	4.1	
-60	0.4	1.7	7.8	18.4	31.5	45.0	55.8	61.6	61.6	55.8	45.0	31.5	18.4	7.8	1.7	0.4
-70		0.5	2.2	6.7	13.2	20.0	25.6	28.7	28.7	25.6	20.0	13.2	6.7	2.2	0.5	
-80																
-90	0.1	0.9		3.5		9.1		12.1		9.1		3.5		0.9		0.1

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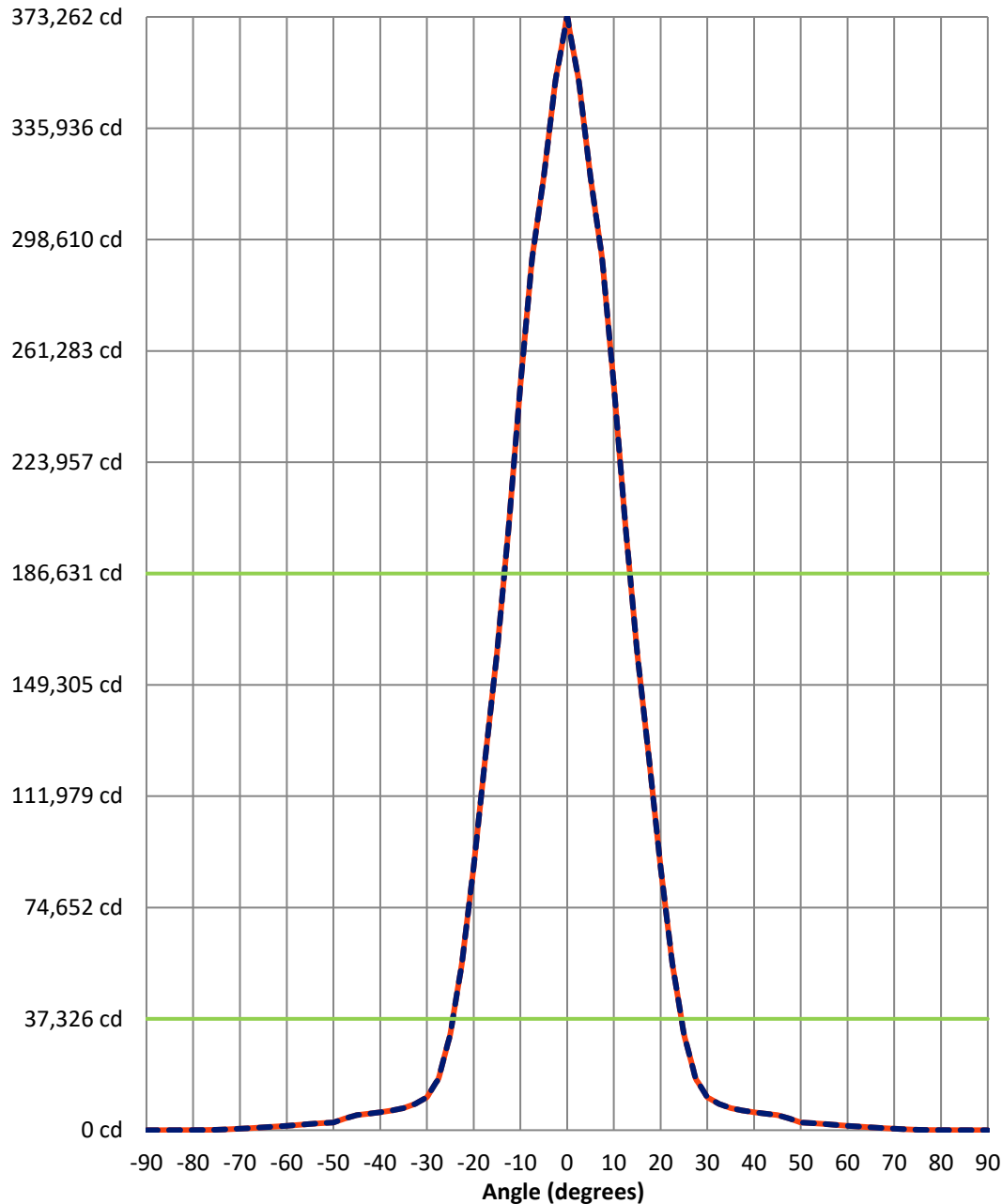
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 26.9°
 V Angle: 26.9°
 Lumens: 43711
 Efficiency: 43.4%

Field:
 H Angle: 48.9°
 V Angle: 48.9°
 Lumens: 83684.8
 Efficiency: 83.0%

Spill:
 Lumens: 17128.4
 Efficiency: 17.0%

— 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	0.3	0.6	0.9	1.2	1.5	1.8	2.0	2.3	2.6	2.9
85°	0.0	0.6	1.2	1.8	2.4	2.9	3.5	4.1	4.6	5.2	5.7
82.5°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	6.9	7.5	8.2
80°	0.0	1.2	2.4	3.5	4.7	5.9	7.0	7.8	8.6	9.5	10.3
77.5°	0.0	1.5	2.9	4.4	5.9	7.2	8.3	9.3	10.4	11.4	12.7
75°	0.0	1.8	3.5	5.3	7.0	8.3	9.5	10.8	12.2	14.2	16.3
72.5°	0.0	2.0	4.1	6.1	7.8	9.3	10.8	12.5	15.0	17.4	19.7
70°	0.0	2.3	4.6	6.9	8.6	10.4	12.2	15.0	17.7	20.5	24.2
67.5°	0.0	2.6	5.2	7.5	9.5	11.4	14.2	17.4	20.5	24.7	28.9
65°	0.0	2.9	5.7	8.2	10.3	12.7	16.3	19.7	24.2	28.9	34.9
62.5°	0.0	3.1	6.3	8.7	11.1	14.4	18.2	22.7	27.9	33.9	44.1
60°	0.0	3.4	6.8	9.3	11.9	16.0	20.2	25.8	31.5	42.0	53.1
57.5°	0.0	3.7	7.2	9.9	13.1	17.6	22.7	28.9	37.8	50.0	76.3
55°	0.0	3.9	7.5	10.5	14.3	19.1	25.3	31.9	44.7	61.8	105.8
52.5°	0.0	4.1	7.9	11.0	15.5	20.7	27.8	37.4	51.4	87.6	134.4
50°	0.0	4.4	8.3	11.5	16.7	22.7	30.2	43.1	62.5	112.7	186.6
47.5°	0.0	4.6	8.6	12.1	17.8	24.7	32.9	48.6	84.0	136.9	239.9
45°	0.0	4.8	8.9	12.9	18.9	26.6	37.4	53.9	104.7	182.5	291.4
42.5°	0.0	5.0	9.2	13.7	19.9	28.3	41.7	66.1	124.6	226.9	351.9
40°	0.0	5.2	9.5	14.4	21.1	30.0	45.9	82.6	149.6	269.4	411.7
37.5°	0.0	5.4	9.8	15.1	22.4	31.7	49.8	98.4	185.4	312.8	468.7
35°	0.0	5.6	10.1	15.8	23.6	34.2	53.5	113.3	219.3	361.2	522.3
32.5°	0.0	5.7	10.3	16.4	24.7	37.1	59.5	127.4	251.2	406.8	572.1
30°	0.0	5.9	10.5	17.0	25.8	39.8	70.7	143.5	281.2	449.6	618.7
27.5°	0.0	6.0	10.7	17.5	26.8	42.4	81.1	167.7	311.7	489.3	662.2
25°	0.0	6.2	10.9	18.0	27.7	44.7	90.7	190.0	344.0	525.4	702.7
22.5°	0.0	6.3	11.1	18.4	28.6	46.8	99.5	210.3	373.5	558.1	749.1
20°	0.0	6.4	11.3	18.9	29.3	48.7	107.3	228.6	400.1	587.5	790.9
17.5°	0.0	6.5	11.4	19.2	30.0	50.4	114.3	244.8	423.8	613.7	828.1
15°	0.0	6.6	11.6	19.5	30.6	51.9	120.4	259.0	444.4	636.6	860.6
12.5°	0.0	6.6	11.7	19.8	31.1	53.1	125.6	271.0	461.9	656.0	888.3
10°	0.0	6.7	11.7	20.0	31.5	54.2	129.8	280.9	476.3	672.0	911.0
7.5°	0.0	6.7	11.8	20.2	31.8	55.0	133.1	288.6	487.6	684.5	928.8
5°	0.0	6.8	11.9	20.3	32.0	55.5	135.5	294.2	495.6	693.4	941.5
2.5°	0.0	6.8	11.9	20.4	32.2	55.9	136.9	297.5	500.5	698.8	949.1
0°	0.0	6.8	11.9	20.4	32.2	55.9	136.9	297.5	500.5	698.8	949.1
-2.5°	0.0	6.8	11.9	20.4	32.2	55.9	136.9	297.5	500.5	698.8	949.1
-5°	0.0	6.8	11.9	20.3	32.0	55.5	135.5	294.2	495.6	693.4	941.5
-7.5°	0.0	6.7	11.8	20.2	31.8	55.0	133.1	288.6	487.6	684.5	928.8
-10°	0.0	6.7	11.7	20.0	31.5	54.2	129.8	280.9	476.3	672.0	911.0
-12.5°	0.0	6.6	11.7	19.8	31.1	53.1	125.6	271.0	461.9	656.0	888.3
-15°	0.0	6.6	11.6	19.5	30.6	51.9	120.4	259.0	444.4	636.6	860.6
-17.5°	0.0	6.5	11.4	19.2	30.0	50.4	114.3	244.8	423.8	613.7	828.1
-20°	0.0	6.4	11.3	18.9	29.3	48.7	107.3	228.6	400.1	587.5	790.9



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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	6.3	11.1	18.4	28.6	46.8	99.5	210.3	373.5	558.1	749.1
-25°	0.0	6.2	10.9	18.0	27.7	44.7	90.7	190.0	344.0	525.4	702.7
-27.5°	0.0	6.0	10.7	17.5	26.8	42.4	81.1	167.7	311.7	489.3	662.2
-30°	0.0	5.9	10.5	17.0	25.8	39.8	70.7	143.5	281.2	449.6	618.7
-32.5°	0.0	5.7	10.3	16.4	24.7	37.1	59.5	127.4	251.2	406.8	572.1
-35°	0.0	5.6	10.1	15.8	23.6	34.2	53.5	113.3	219.3	361.2	522.3
-37.5°	0.0	5.4	9.8	15.1	22.4	31.7	49.8	98.4	185.4	312.8	468.7
-40°	0.0	5.2	9.5	14.4	21.1	30.0	45.9	82.6	149.6	269.4	411.7
-42.5°	0.0	5.0	9.2	13.7	19.9	28.3	41.7	66.1	124.6	226.9	351.9
-45°	0.0	4.8	8.9	12.9	18.9	26.6	37.4	53.9	104.7	182.5	291.4
-47.5°	0.0	4.6	8.6	12.1	17.8	24.7	32.9	48.6	84.0	136.9	239.9
-50°	0.0	4.4	8.3	11.5	16.7	22.7	30.2	43.1	62.5	112.7	186.6
-52.5°	0.0	4.1	7.9	11.0	15.5	20.7	27.8	37.4	51.4	87.6	134.4
-55°	0.0	3.9	7.5	10.5	14.3	19.1	25.3	31.9	44.7	61.8	105.8
-57.5°	0.0	3.7	7.2	9.9	13.1	17.6	22.7	28.9	37.8	50.0	76.3
-60°	0.0	3.4	6.8	9.3	11.9	16.0	20.2	25.8	31.5	42.0	53.1
-62.5°	0.0	3.1	6.3	8.7	11.1	14.4	18.2	22.7	27.9	33.9	44.1
-65°	0.0	2.9	5.7	8.2	10.3	12.7	16.3	19.7	24.2	28.9	34.9
-67.5°	0.0	2.6	5.2	7.5	9.5	11.4	14.2	17.4	20.5	24.7	28.9
-70°	0.0	2.3	4.6	6.9	8.6	10.4	12.2	15.0	17.7	20.5	24.2
-72.5°	0.0	2.0	4.1	6.1	7.8	9.3	10.8	12.5	15.0	17.4	19.7
-75°	0.0	1.8	3.5	5.3	7.0	8.3	9.5	10.8	12.2	14.2	16.3
-77.5°	0.0	1.5	2.9	4.4	5.9	7.2	8.3	9.3	10.4	11.4	12.7
-80°	0.0	1.2	2.4	3.5	4.7	5.9	7.0	7.8	8.6	9.5	10.3
-82.5°	0.0	0.9	1.8	2.7	3.5	4.4	5.3	6.1	6.9	7.5	8.2
-85°	0.0	0.6	1.2	1.8	2.4	2.9	3.5	4.1	4.6	5.2	5.7
-87.5°	0.0	0.3	0.6	0.9	1.2	1.5	1.8	2.0	2.3	2.6	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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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-3S-HEG-S

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°	3.1	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.2	5.4
85°	6.3	6.8	7.2	7.5	7.9	8.3	8.6	8.9	9.2	9.5	9.8
82.5°	8.7	9.3	9.9	10.5	11.0	11.5	12.1	12.9	13.7	14.4	15.1
80°	11.1	11.9	13.1	14.3	15.5	16.7	17.8	18.9	19.9	21.1	22.4
77.5°	14.4	16.0	17.6	19.1	20.7	22.7	24.7	26.6	28.3	30.0	31.7
75°	18.2	20.2	22.7	25.3	27.8	30.2	32.9	37.4	41.7	45.9	49.8
72.5°	22.7	25.8	28.9	31.9	37.4	43.1	48.6	53.9	66.1	82.6	98.4
70°	27.9	31.5	37.8	44.7	51.4	62.5	84.0	104.7	124.6	149.6	185.4
67.5°	33.9	42.0	50.0	61.8	87.6	112.7	136.9	182.5	226.9	269.4	312.8
65°	44.1	53.1	76.3	105.8	134.4	186.6	239.9	291.4	351.9	411.7	468.7
62.5°	54.2	83.6	116.7	160.5	222.9	283.5	353.7	425.3	494.2	558.9	620.4
60°	83.6	120.4	175.1	244.8	316.6	400.1	481.1	558.1	631.7	702.7	788.0
57.5°	116.7	175.1	252.1	335.2	428.2	518.3	604.1	687.0	784.7	881.9	975.4
55°	160.5	244.8	335.2	437.6	536.8	631.9	730.7	844.0	953.4	1060.8	1163.6
52.5°	222.9	316.6	428.2	536.8	641.2	754.4	879.9	1002.6	1122.6	1237.4	1345.4
50°	283.5	400.1	518.3	631.9	754.4	891.9	1027.3	1160.1	1286.5	1407.2	1538.8
47.5°	353.7	481.1	604.1	730.7	879.9	1027.3	1172.6	1311.2	1444.7	1601.3	1754.9
45°	425.3	558.1	687.0	844.0	1002.6	1160.1	1311.2	1457.2	1632.8	1804.3	1975.3
42.5°	494.2	631.7	784.7	953.4	1122.6	1286.5	1444.7	1632.8	1821.0	2009.2	2173.7
40°	558.9	702.7	881.9	1060.8	1237.4	1407.2	1601.3	1804.3	2009.2	2188.1	2348.4
37.5°	620.4	788.0	975.4	1163.6	1345.4	1538.8	1754.9	1975.3	2173.7	2348.4	2490.2
35°	678.8	869.2	1065.6	1260.1	1448.4	1676.0	1907.9	2130.7	2319.1	2477.7	2868.2
32.5°	742.7	945.8	1151.1	1350.5	1567.4	1808.2	2054.1	2260.9	2440.6	2712.6	3665.9
30°	808.2	1019.2	1230.8	1435.7	1681.5	1936.8	2174.9	2379.5	2550.1	3427.9	4341.8
27.5°	869.2	1087.7	1303.9	1529.0	1789.4	2057.4	2283.0	2475.8	3036.6	4075.3	4937.3
25°	925.5	1151.1	1371.5	1620.4	1892.9	2155.9	2379.0	2565.7	3627.9	4598.0	5239.4
22.5°	977.5	1209.0	1433.5	1704.1	1988.1	2241.7	2455.9	3008.1	4133.7	5069.6	5453.0
20°	1025.0	1260.1	1497.3	1780.7	2074.4	2319.7	2525.9	3471.6	4546.0	5251.9	5657.3
17.5°	1067.2	1305.6	1559.2	1851.4	2140.9	2383.8	2641.0	3887.8	4917.0	5416.3	5846.0
15°	1104.2	1345.4	1613.4	1913.4	2197.2	2434.6	2978.8	4198.9	5135.8	5564.3	6014.4
12.5°	1135.6	1379.3	1659.6	1966.3	2245.3	2478.0	3268.3	4458.1	5251.2	5697.3	6191.5
10°	1161.5	1407.2	1697.6	2009.9	2285.0	2513.9	3507.7	4672.8	5346.9	5807.9	6339.0
7.5°	1181.7	1429.0	1727.4	2044.0	2316.1	2542.1	3695.4	4841.4	5422.1	5895.0	6455.5
5°	1196.2	1444.7	1748.8	2068.5	2338.4	2562.3	3830.4	4962.7	5476.3	5957.9	6539.5
2.5°	1204.9	1454.1	1761.6	2083.3	2351.8	2574.4	3911.8	5035.9	5509.1	5995.8	6590.4
0°	1207.8	1457.2	1765.9	2088.2	2356.3	2578.5	3939.0	5060.3	5520.0	6008.5	6607.4
-2.5°	1204.9	1454.1	1761.6	2083.3	2351.8	2574.4	3911.8	5035.9	5509.1	5995.8	6590.4
-5°	1196.2	1444.7	1748.8	2068.5	2338.4	2562.3	3830.4	4962.7	5476.3	5957.9	6539.5
-7.5°	1181.7	1429.0	1727.4	2044.0	2316.1	2542.1	3695.4	4841.4	5422.1	5895.0	6455.5
-10°	1161.5	1407.2	1697.6	2009.9	2285.0	2513.9	3507.7	4672.8	5346.9	5807.9	6339.0
-12.5°	1135.6	1379.3	1659.6	1966.3	2245.3	2478.0	3268.3	4458.1	5251.2	5697.3	6191.5
-15°	1104.2	1345.4	1613.4	1913.4	2197.2	2434.6	2978.8	4198.9	5135.8	5564.3	6014.4
-17.5°	1067.2	1305.6	1559.2	1851.4	2140.9	2383.8	2641.0	3887.8	4917.0	5416.3	5846.0
-20°	1025.0	1260.1	1497.3	1780.7	2074.4	2319.7	2525.9	3471.6	4546.0	5251.9	5657.3



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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°	977.5	1209.0	1433.5	1704.1	1988.1	2241.7	2455.9	3008.1	4133.7	5069.6	5453.0
-25°	925.5	1151.1	1371.5	1620.4	1892.9	2155.9	2379.0	2565.7	3627.9	4598.0	5239.4
-27.5°	869.2	1087.7	1303.9	1529.0	1789.4	2057.4	2283.0	2475.8	3036.6	4075.3	4937.3
-30°	808.2	1019.2	1230.8	1435.7	1681.5	1936.8	2174.9	2379.5	2550.1	3427.9	4341.8
-32.5°	742.7	945.8	1151.1	1350.5	1567.4	1808.2	2054.1	2260.9	2440.6	2712.6	3665.9
-35°	678.8	869.2	1065.6	1260.1	1448.4	1676.0	1907.9	2130.7	2319.1	2477.7	2868.2
-37.5°	620.4	788.0	975.4	1163.6	1345.4	1538.8	1754.9	1975.3	2173.7	2348.4	2490.2
-40°	558.9	702.7	881.9	1060.8	1237.4	1407.2	1601.3	1804.3	2009.2	2188.1	2348.4
-42.5°	494.2	631.7	784.7	953.4	1122.6	1286.5	1444.7	1632.8	1821.0	2009.2	2173.7
-45°	425.3	558.1	687.0	844.0	1002.6	1160.1	1311.2	1457.2	1632.8	1804.3	1975.3
-47.5°	353.7	481.1	604.1	730.7	879.9	1027.3	1172.6	1311.2	1444.7	1601.3	1754.9
-50°	283.5	400.1	518.3	631.9	754.4	891.9	1027.3	1160.1	1286.5	1407.2	1538.8
-52.5°	222.9	316.6	428.2	536.8	641.2	754.4	879.9	1002.6	1122.6	1237.4	1345.4
-55°	160.5	244.8	335.2	437.6	536.8	631.9	730.7	844.0	953.4	1060.8	1163.6
-57.5°	116.7	175.1	252.1	335.2	428.2	518.3	604.1	687.0	784.7	881.9	975.4
-60°	83.6	120.4	175.1	244.8	316.6	400.1	481.1	558.1	631.7	702.7	788.0
-62.5°	54.2	83.6	116.7	160.5	222.9	283.5	353.7	425.3	494.2	558.9	620.4
-65°	44.1	53.1	76.3	105.8	134.4	186.6	239.9	291.4	351.9	411.7	468.7
-67.5°	33.9	42.0	50.0	61.8	87.6	112.7	136.9	182.5	226.9	269.4	312.8
-70°	27.9	31.5	37.8	44.7	51.4	62.5	84.0	104.7	124.6	149.6	185.4
-72.5°	22.7	25.8	28.9	31.9	37.4	43.1	48.6	53.9	66.1	82.6	98.4
-75°	18.2	20.2	22.7	25.3	27.8	30.2	32.9	37.4	41.7	45.9	49.8
-77.5°	14.4	16.0	17.6	19.1	20.7	22.7	24.7	26.6	28.3	30.0	31.7
-80°	11.1	11.9	13.1	14.3	15.5	16.7	17.8	18.9	19.9	21.1	22.4
-82.5°	8.7	9.3	9.9	10.5	11.0	11.5	12.1	12.9	13.7	14.4	15.1
-85°	6.3	6.8	7.2	7.5	7.9	8.3	8.6	8.9	9.2	9.5	9.8
-87.5°	3.1	3.4	3.7	3.9	4.1	4.4	4.6	4.8	5.0	5.2	5.4
-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):

	-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°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.7
85°	10.1	10.3	10.5	10.7	10.9	11.1	11.3	11.4	11.6	11.7	11.7
82.5°	15.8	16.4	17.0	17.5	18.0	18.4	18.9	19.2	19.5	19.8	20.0
80°	23.6	24.7	25.8	26.8	27.7	28.6	29.3	30.0	30.6	31.1	31.5
77.5°	34.2	37.1	39.8	42.4	44.7	46.8	48.7	50.4	51.9	53.1	54.2
75°	53.5	59.5	70.7	81.1	90.7	99.5	107.3	114.3	120.4	125.6	129.8
72.5°	113.3	127.4	143.5	167.7	190.0	210.3	228.6	244.8	259.0	271.0	280.9
70°	219.3	251.2	281.2	311.7	344.0	373.5	400.1	423.8	444.4	461.9	476.3
67.5°	361.2	406.8	449.6	489.3	525.4	558.1	587.5	613.7	636.6	656.0	672.0
65°	522.3	572.1	618.7	662.2	702.7	749.1	790.9	828.1	860.6	888.3	911.0
62.5°	678.8	742.7	808.2	869.2	925.5	977.5	1025.0	1067.2	1104.2	1135.6	1161.5
60°	869.2	945.8	1019.2	1087.7	1151.1	1209.0	1260.1	1305.6	1345.4	1379.3	1407.2
57.5°	1065.6	1151.1	1230.8	1303.9	1371.5	1433.5	1497.3	1559.2	1613.4	1659.6	1697.6
55°	1260.1	1350.5	1435.7	1529.0	1620.4	1704.1	1780.7	1851.4	1913.4	1966.3	2009.9
52.5°	1448.4	1567.4	1681.5	1789.4	1892.9	1988.1	2074.4	2140.9	2197.2	2245.3	2285.0
50°	1676.0	1808.2	1936.8	2057.4	2155.9	2241.7	2319.7	2383.8	2434.6	2478.0	2513.9
47.5°	1907.9	2054.1	2174.9	2283.0	2379.0	2455.9	2525.9	2641.0	2978.8	3268.3	3507.7
45°	2130.7	2260.9	2379.5	2475.8	2565.7	3008.1	3471.6	3887.8	4198.9	4458.1	4672.8
42.5°	2319.1	2440.6	2550.1	3036.6	3627.9	4133.7	4546.0	4917.0	5135.8	5251.2	5346.9
40°	2477.7	2712.6	3427.9	4075.3	4598.0	5069.6	5251.9	5416.3	5564.3	5697.3	5807.9
37.5°	2868.2	3665.9	4341.8	4937.3	5239.4	5453.0	5657.3	5846.0	6014.4	6191.5	6339.0
35°	3745.8	4476.6	5094.6	5354.8	5605.3	5848.8	6087.9	6337.7	6559.9	6799.9	7013.3
32.5°	4476.6	5123.1	5413.3	5700.9	5979.4	6292.8	6588.8	6941.0	7260.8	7645.0	8060.0
30°	5094.6	5413.3	5733.1	6054.1	6418.2	6811.1	7233.9	7791.1	8409.3	9020.7	9729.5
27.5°	5354.8	5700.9	6054.1	6460.4	6927.1	7422.2	8232.2	9064.5	10112.9	11032.5	13243.8
25°	5605.3	5979.4	6418.2	6927.1	7530.4	8457.0	9611.3	10868.1	13809.1	16680.5	21477.2
22.5°	5848.8	6292.8	6811.1	7422.2	8457.0	9796.2	11658.8	15535.9	21371.9	28740.1	36795.4
20°	6087.9	6588.8	7233.9	8232.2	9611.3	11658.8	16121.6	24257.0	33952.5	46982.1	59009.9
17.5°	6337.7	6941.0	7791.1	9064.5	10868.1	15535.9	24257.0	36443.0	52263.3	70309.7	87232.2
15°	6559.9	7260.8	8409.3	10112.9	13809.1	21371.9	33952.5	52263.3	74185.6	96557.8	118142.5
12.5°	6799.9	7645.0	9020.7	11032.5	16680.5	28740.1	46982.1	70309.7	96557.8	123384.9	146611.9
10°	7013.3	8060.0	9729.5	13243.8	21477.2	36795.4	59009.9	87232.2	118142.5	146611.9	174320.6
7.5°	7182.1	8389.1	10293.6	15017.2	26068.0	45008.7	71411.3	103023.7	135742.3	167294.8	202723.7
5°	7304.3	8627.9	10703.8	16311.3	29432.9	51063.8	80624.9	114985.8	148924.8	185706.1	226230.7
2.5°	7378.2	8772.6	10953.0	17099.3	31488.5	54778.5	86310.2	122427.7	157224.8	198061.2	243484.2
0°	7403.0	8821.1	11036.6	17364.0	32180.1	56031.1	88233.2	124956.2	160064.2	202322.5	249693.6
-2.5°	7378.2	8772.6	10953.0	17099.3	31488.5	54778.5	86310.2	122427.7	157224.8	198061.2	243484.2
-5°	7304.3	8627.9	10703.8	16311.3	29432.9	51063.8	80624.9	114985.8	148924.8	185706.1	226230.7
-7.5°	7182.1	8389.1	10293.6	15017.2	26068.0	45008.7	71411.3	103023.7	135742.3	167294.8	202723.7
-10°	7013.3	8060.0	9729.5	13243.8	21477.2	36795.4	59009.9	87232.2	118142.5	146611.9	174320.6
-12.5°	6799.9	7645.0	9020.7	11032.5	16680.5	28740.1	46982.1	70309.7	96557.8	123384.9	146611.9
-15°	6559.9	7260.8	8409.3	10112.9	13809.1	21371.9	33952.5	52263.3	74185.6	96557.8	118142.5
-17.5°	6337.7	6941.0	7791.1	9064.5	10868.1	15535.9	24257.0	36443.0	52263.3	70309.7	87232.2
-20°	6087.9	6588.8	7233.9	8232.2	9611.3	11658.8	16121.6	24257.0	33952.5	46982.1	59009.9



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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°	5848.8	6292.8	6811.1	7422.2	8457.0	9796.2	11658.8	15535.9	21371.9	28740.1	36795.4
-25°	5605.3	5979.4	6418.2	6927.1	7530.4	8457.0	9611.3	10868.1	13809.1	16680.5	21477.2
-27.5°	5354.8	5700.9	6054.1	6460.4	6927.1	7422.2	8232.2	9064.5	10112.9	11032.5	13243.8
-30°	5094.6	5413.3	5733.1	6054.1	6418.2	6811.1	7233.9	7791.1	8409.3	9020.7	9729.5
-32.5°	4476.6	5123.1	5413.3	5700.9	5979.4	6292.8	6588.8	6941.0	7260.8	7645.0	8060.0
-35°	3745.8	4476.6	5094.6	5354.8	5605.3	5848.8	6087.9	6337.7	6559.9	6799.9	7013.3
-37.5°	2868.2	3665.9	4341.8	4937.3	5239.4	5453.0	5657.3	5846.0	6014.4	6191.5	6339.0
-40°	2477.7	2712.6	3427.9	4075.3	4598.0	5069.6	5251.9	5416.3	5564.3	5697.3	5807.9
-42.5°	2319.1	2440.6	2550.1	3036.6	3627.9	4133.7	4546.0	4917.0	5135.8	5251.2	5346.9
-45°	2130.7	2260.9	2379.5	2475.8	2565.7	3008.1	3471.6	3887.8	4198.9	4458.1	4672.8
-47.5°	1907.9	2054.1	2174.9	2283.0	2379.0	2455.9	2525.9	2641.0	2978.8	3268.3	3507.7
-50°	1676.0	1808.2	1936.8	2057.4	2155.9	2241.7	2319.7	2383.8	2434.6	2478.0	2513.9
-52.5°	1448.4	1567.4	1681.5	1789.4	1892.9	1988.1	2074.4	2140.9	2197.2	2245.3	2285.0
-55°	1260.1	1350.5	1435.7	1529.0	1620.4	1704.1	1780.7	1851.4	1913.4	1966.3	2009.9
-57.5°	1065.6	1151.1	1230.8	1303.9	1371.5	1433.5	1497.3	1559.2	1613.4	1659.6	1697.6
-60°	869.2	945.8	1019.2	1087.7	1151.1	1209.0	1260.1	1305.6	1345.4	1379.3	1407.2
-62.5°	678.8	742.7	808.2	869.2	925.5	977.5	1025.0	1067.2	1104.2	1135.6	1161.5
-65°	522.3	572.1	618.7	662.2	702.7	749.1	790.9	828.1	860.6	888.3	911.0
-67.5°	361.2	406.8	449.6	489.3	525.4	558.1	587.5	613.7	636.6	656.0	672.0
-70°	219.3	251.2	281.2	311.7	344.0	373.5	400.1	423.8	444.4	461.9	476.3
-72.5°	113.3	127.4	143.5	167.7	190.0	210.3	228.6	244.8	259.0	271.0	280.9
-75°	53.5	59.5	70.7	81.1	90.7	99.5	107.3	114.3	120.4	125.6	129.8
-77.5°	34.2	37.1	39.8	42.4	44.7	46.8	48.7	50.4	51.9	53.1	54.2
-80°	23.6	24.7	25.8	26.8	27.7	28.6	29.3	30.0	30.6	31.1	31.5
-82.5°	15.8	16.4	17.0	17.5	18.0	18.4	18.9	19.2	19.5	19.8	20.0
-85°	10.1	10.3	10.5	10.7	10.9	11.1	11.3	11.4	11.6	11.7	11.7
-87.5°	5.6	5.7	5.9	6.0	6.2	6.3	6.4	6.5	6.6	6.6	6.7
-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: P701471 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0680R-40-80-3S-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°	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.6	6.5
85°	11.8	11.9	11.9	11.9	11.9	11.9	11.8	11.7	11.7	11.6	11.4
82.5°	20.2	20.3	20.4	20.4	20.4	20.3	20.2	20.0	19.8	19.5	19.2
80°	31.8	32.0	32.2	32.2	32.2	32.0	31.8	31.5	31.1	30.6	30.0
77.5°	55.0	55.5	55.9	56.0	55.9	55.5	55.0	54.2	53.1	51.9	50.4
75°	133.1	135.5	136.9	137.4	136.9	135.5	133.1	129.8	125.6	120.4	114.3
72.5°	288.6	294.2	297.5	298.6	297.5	294.2	288.6	280.9	271.0	259.0	244.8
70°	487.6	495.6	500.5	502.1	500.5	495.6	487.6	476.3	461.9	444.4	423.8
67.5°	684.5	693.4	698.8	700.6	698.8	693.4	684.5	672.0	656.0	636.6	613.7
65°	928.8	941.5	949.1	951.7	949.1	941.5	928.8	911.0	888.3	860.6	828.1
62.5°	1181.7	1196.2	1204.9	1207.8	1204.9	1196.2	1181.7	1161.5	1135.6	1104.2	1067.2
60°	1429.0	1444.7	1454.1	1457.2	1454.1	1444.7	1429.0	1407.2	1379.3	1345.4	1305.6
57.5°	1727.4	1748.8	1761.6	1765.9	1761.6	1748.8	1727.4	1697.6	1659.6	1613.4	1559.2
55°	2044.0	2068.5	2083.3	2088.2	2083.3	2068.5	2044.0	2009.9	1966.3	1913.4	1851.4
52.5°	2316.1	2338.4	2351.8	2356.3	2351.8	2338.4	2316.1	2285.0	2245.3	2197.2	2140.9
50°	2542.1	2562.3	2574.4	2578.5	2574.4	2562.3	2542.1	2513.9	2478.0	2434.6	2383.8
47.5°	3695.4	3830.4	3911.8	3939.0	3911.8	3830.4	3695.4	3507.7	3268.3	2978.8	2641.0
45°	4841.4	4962.7	5035.9	5060.3	5035.9	4962.7	4841.4	4672.8	4458.1	4198.9	3887.8
42.5°	5422.1	5476.3	5509.1	5520.0	5509.1	5476.3	5422.1	5346.9	5251.2	5135.8	4917.0
40°	5895.0	5957.9	5995.8	6008.5	5995.8	5957.9	5895.0	5807.9	5697.3	5564.3	5416.3
37.5°	6455.5	6539.5	6590.4	6607.4	6590.4	6539.5	6455.5	6339.0	6191.5	6014.4	5846.0
35°	7182.1	7304.3	7378.2	7403.0	7378.2	7304.3	7182.1	7013.3	6799.9	6559.9	6337.7
32.5°	8389.1	8627.9	8772.6	8821.1	8772.6	8627.9	8389.1	8060.0	7645.0	7260.8	6941.0
30°	10293.6	10703.8	10953.0	11036.6	10953.0	10703.8	10293.6	9729.5	9020.7	8409.3	7791.1
27.5°	15017.2	16311.3	17099.3	17364.0	17099.3	16311.3	15017.2	13243.8	11032.5	10112.9	9064.5
25°	26068.0	29432.9	31488.5	32180.1	31488.5	29432.9	26068.0	21477.2	16680.5	13809.1	10868.1
22.5°	45008.7	51063.8	54778.5	56031.1	54778.5	51063.8	45008.7	36795.4	28740.1	21371.9	15535.9
20°	71411.3	80624.9	86310.2	88233.2	86310.2	80624.9	71411.3	59009.9	46982.1	33952.5	24257.0
17.5°	103023.7	114985.8	122427.7	124956.2	122427.7	114985.8	103023.7	87232.2	70309.7	52263.3	36443.0
15°	135742.3	148924.8	157224.8	160064.2	157224.8	148924.8	135742.3	118142.5	96557.8	74185.6	52263.3
12.5°	167294.8	185706.1	198061.2	202322.5	198061.2	185706.1	167294.8	146611.9	123384.9	96557.8	70309.7
10°	202723.7	226230.7	243484.2	249693.6	243484.2	226230.7	202723.7	174320.6	146611.9	118142.5	87232.2
7.5°	237640.5	269374.3	286927.7	292139.3	286927.7	269374.3	237640.5	202723.7	167294.8	135742.3	103023.7
5°	269374.3	297738.2	313973.9	319590.7	313973.9	297738.2	269374.3	226230.7	185706.1	148924.8	114985.8
2.5°	286927.7	313973.9	336510.5	351803.1	336510.5	313973.9	286927.7	243484.2	198061.2	157224.8	122427.7
0°	292139.3	319590.7	351803.1	373262.1	351803.1	319590.7	292139.3	249693.6	202322.5	160064.2	124956.2
-2.5°	286927.7	313973.9	336510.5	351803.1	336510.5	313973.9	286927.7	243484.2	198061.2	157224.8	122427.7
-5°	269374.3	297738.2	313973.9	319590.7	313973.9	297738.2	269374.3	226230.7	185706.1	148924.8	114985.8
-7.5°	237640.5	269374.3	286927.7	292139.3	286927.7	269374.3	237640.5	202723.7	167294.8	135742.3	103023.7
-10°	202723.7	226230.7	243484.2	249693.6	243484.2	226230.7	202723.7	174320.6	146611.9	118142.5	87232.2
-12.5°	167294.8	185706.1	198061.2	202322.5	198061.2	185706.1	167294.8	146611.9	123384.9	96557.8	70309.7
-15°	135742.3	148924.8	157224.8	160064.2	157224.8	148924.8	135742.3	118142.5	96557.8	74185.6	52263.3
-17.5°	103023.7	114985.8	122427.7	124956.2	122427.7	114985.8	103023.7	87232.2	70309.7	52263.3	36443.0
-20°	71411.3	80624.9	86310.2	88233.2	86310.2	80624.9	71411.3	59009.9	46982.1	33952.5	24257.0



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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°	45008.7	51063.8	54778.5	56031.1	54778.5	51063.8	45008.7	36795.4	28740.1	21371.9	15535.9
-25°	26068.0	29432.9	31488.5	32180.1	31488.5	29432.9	26068.0	21477.2	16680.5	13809.1	10868.1
-27.5°	15017.2	16311.3	17099.3	17364.0	17099.3	16311.3	15017.2	13243.8	11032.5	10112.9	9064.5
-30°	10293.6	10703.8	10953.0	11036.6	10953.0	10703.8	10293.6	9729.5	9020.7	8409.3	7791.1
-32.5°	8389.1	8627.9	8772.6	8821.1	8772.6	8627.9	8389.1	8060.0	7645.0	7260.8	6941.0
-35°	7182.1	7304.3	7378.2	7403.0	7378.2	7304.3	7182.1	7013.3	6799.9	6559.9	6337.7
-37.5°	6455.5	6539.5	6590.4	6607.4	6590.4	6539.5	6455.5	6339.0	6191.5	6014.4	5846.0
-40°	5895.0	5957.9	5995.8	6008.5	5995.8	5957.9	5895.0	5807.9	5697.3	5564.3	5416.3
-42.5°	5422.1	5476.3	5509.1	5520.0	5509.1	5476.3	5422.1	5346.9	5251.2	5135.8	4917.0
-45°	4841.4	4962.7	5035.9	5060.3	5035.9	4962.7	4841.4	4672.8	4458.1	4198.9	3887.8
-47.5°	3695.4	3830.4	3911.8	3939.0	3911.8	3830.4	3695.4	3507.7	3268.3	2978.8	2641.0
-50°	2542.1	2562.3	2574.4	2578.5	2574.4	2562.3	2542.1	2513.9	2478.0	2434.6	2383.8
-52.5°	2316.1	2338.4	2351.8	2356.3	2351.8	2338.4	2316.1	2285.0	2245.3	2197.2	2140.9
-55°	2044.0	2068.5	2083.3	2088.2	2083.3	2068.5	2044.0	2009.9	1966.3	1913.4	1851.4
-57.5°	1727.4	1748.8	1761.6	1765.9	1761.6	1748.8	1727.4	1697.6	1659.6	1613.4	1559.2
-60°	1429.0	1444.7	1454.1	1457.2	1454.1	1444.7	1429.0	1407.2	1379.3	1345.4	1305.6
-62.5°	1181.7	1196.2	1204.9	1207.8	1204.9	1196.2	1181.7	1161.5	1135.6	1104.2	1067.2
-65°	928.8	941.5	949.1	951.7	949.1	941.5	928.8	911.0	888.3	860.6	828.1
-67.5°	684.5	693.4	698.8	700.6	698.8	693.4	684.5	672.0	656.0	636.6	613.7
-70°	487.6	495.6	500.5	502.1	500.5	495.6	487.6	476.3	461.9	444.4	423.8
-72.5°	288.6	294.2	297.5	298.6	297.5	294.2	288.6	280.9	271.0	259.0	244.8
-75°	133.1	135.5	136.9	137.4	136.9	135.5	133.1	129.8	125.6	120.4	114.3
-77.5°	55.0	55.5	55.9	56.0	55.9	55.5	55.0	54.2	53.1	51.9	50.4
-80°	31.8	32.0	32.2	32.2	32.2	32.0	31.8	31.5	31.1	30.6	30.0
-82.5°	20.2	20.3	20.4	20.4	20.4	20.3	20.2	20.0	19.8	19.5	19.2
-85°	11.8	11.9	11.9	11.9	11.9	11.9	11.8	11.7	11.7	11.6	11.4
-87.5°	6.7	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.6	6.5
-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°	6.4	6.3	6.2	6.0	5.9	5.7	5.6	5.4	5.2	5.0	4.8
85°	11.3	11.1	10.9	10.7	10.5	10.3	10.1	9.8	9.5	9.2	8.9
82.5°	18.9	18.4	18.0	17.5	17.0	16.4	15.8	15.1	14.4	13.7	12.9
80°	29.3	28.6	27.7	26.8	25.8	24.7	23.6	22.4	21.1	19.9	18.9
77.5°	48.7	46.8	44.7	42.4	39.8	37.1	34.2	31.7	30.0	28.3	26.6
75°	107.3	99.5	90.7	81.1	70.7	59.5	53.5	49.8	45.9	41.7	37.4
72.5°	228.6	210.3	190.0	167.7	143.5	127.4	113.3	98.4	82.6	66.1	53.9
70°	400.1	373.5	344.0	311.7	281.2	251.2	219.3	185.4	149.6	124.6	104.7
67.5°	587.5	558.1	525.4	489.3	449.6	406.8	361.2	312.8	269.4	226.9	182.5
65°	790.9	749.1	702.7	662.2	618.7	572.1	522.3	468.7	411.7	351.9	291.4
62.5°	1025.0	977.5	925.5	869.2	808.2	742.7	678.8	620.4	558.9	494.2	425.3
60°	1260.1	1209.0	1151.1	1087.7	1019.2	945.8	869.2	788.0	702.7	631.7	558.1
57.5°	1497.3	1433.5	1371.5	1303.9	1230.8	1151.1	1065.6	975.4	881.9	784.7	687.0
55°	1780.7	1704.1	1620.4	1529.0	1435.7	1350.5	1260.1	1163.6	1060.8	953.4	844.0
52.5°	2074.4	1988.1	1892.9	1789.4	1681.5	1567.4	1448.4	1345.4	1237.4	1122.6	1002.6
50°	2319.7	2241.7	2155.9	2057.4	1936.8	1808.2	1676.0	1538.8	1407.2	1286.5	1160.1
47.5°	2525.9	2455.9	2379.0	2283.0	2174.9	2054.1	1907.9	1754.9	1601.3	1444.7	1311.2
45°	3471.6	3008.1	2565.7	2475.8	2379.5	2260.9	2130.7	1975.3	1804.3	1632.8	1457.2
42.5°	4546.0	4133.7	3627.9	3036.6	2550.1	2440.6	2319.1	2173.7	2009.2	1821.0	1632.8
40°	5251.9	5069.6	4598.0	4075.3	3427.9	2712.6	2477.7	2348.4	2188.1	2009.2	1804.3
37.5°	5657.3	5453.0	5239.4	4937.3	4341.8	3665.9	2868.2	2490.2	2348.4	2173.7	1975.3
35°	6087.9	5848.8	5605.3	5354.8	5094.6	4476.6	3745.8	2868.2	2477.7	2319.1	2130.7
32.5°	6588.8	6292.8	5979.4	5700.9	5413.3	5123.1	4476.6	3665.9	2712.6	2440.6	2260.9
30°	7233.9	6811.1	6418.2	6054.1	5733.1	5413.3	5094.6	4341.8	3427.9	2550.1	2379.5
27.5°	8232.2	7422.2	6927.1	6460.4	6054.1	5700.9	5354.8	4937.3	4075.3	3036.6	2475.8
25°	9611.3	8457.0	7530.4	6927.1	6418.2	5979.4	5605.3	5239.4	4598.0	3627.9	2565.7
22.5°	11658.8	9796.2	8457.0	7422.2	6811.1	6292.8	5848.8	5453.0	5069.6	4133.7	3008.1
20°	16121.6	11658.8	9611.3	8232.2	7233.9	6588.8	6087.9	5657.3	5251.9	4546.0	3471.6
17.5°	24257.0	15535.9	10868.1	9064.5	7791.1	6941.0	6337.7	5846.0	5416.3	4917.0	3887.8
15°	33952.5	21371.9	13809.1	10112.9	8409.3	7260.8	6559.9	6014.4	5564.3	5135.8	4198.9
12.5°	46982.1	28740.1	16680.5	11032.5	9020.7	7645.0	6799.9	6191.5	5697.3	5251.2	4458.1
10°	59009.9	36795.4	21477.2	13243.8	9729.5	8060.0	7013.3	6339.0	5807.9	5346.9	4672.8
7.5°	71411.3	45008.7	26068.0	15017.2	10293.6	8389.1	7182.1	6455.5	5895.0	5422.1	4841.4
5°	80624.9	51063.8	29432.9	16311.3	10703.8	8627.9	7304.3	6539.5	5957.9	5476.3	4962.7
2.5°	86310.2	54778.5	31488.5	17099.3	10953.0	8772.6	7378.2	6590.4	5995.8	5509.1	5035.9
0°	88233.2	56031.1	32180.1	17364.0	11036.6	8821.1	7403.0	6607.4	6008.5	5520.0	5060.3
-2.5°	86310.2	54778.5	31488.5	17099.3	10953.0	8772.6	7378.2	6590.4	5995.8	5509.1	5035.9
-5°	80624.9	51063.8	29432.9	16311.3	10703.8	8627.9	7304.3	6539.5	5957.9	5476.3	4962.7
-7.5°	71411.3	45008.7	26068.0	15017.2	10293.6	8389.1	7182.1	6455.5	5895.0	5422.1	4841.4
-10°	59009.9	36795.4	21477.2	13243.8	9729.5	8060.0	7013.3	6339.0	5807.9	5346.9	4672.8
-12.5°	46982.1	28740.1	16680.5	11032.5	9020.7	7645.0	6799.9	6191.5	5697.3	5251.2	4458.1
-15°	33952.5	21371.9	13809.1	10112.9	8409.3	7260.8	6559.9	6014.4	5564.3	5135.8	4198.9
-17.5°	24257.0	15535.9	10868.1	9064.5	7791.1	6941.0	6337.7	5846.0	5416.3	4917.0	3887.8
-20°	16121.6	11658.8	9611.3	8232.2	7233.9	6588.8	6087.9	5657.3	5251.9	4546.0	3471.6



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	11658.8	9796.2	8457.0	7422.2	6811.1	6292.8	5848.8	5453.0	5069.6	4133.7	3008.1
-25°	9611.3	8457.0	7530.4	6927.1	6418.2	5979.4	5605.3	5239.4	4598.0	3627.9	2565.7
-27.5°	8232.2	7422.2	6927.1	6460.4	6054.1	5700.9	5354.8	4937.3	4075.3	3036.6	2475.8
-30°	7233.9	6811.1	6418.2	6054.1	5733.1	5413.3	5094.6	4341.8	3427.9	2550.1	2379.5
-32.5°	6588.8	6292.8	5979.4	5700.9	5413.3	5123.1	4476.6	3665.9	2712.6	2440.6	2260.9
-35°	6087.9	5848.8	5605.3	5354.8	5094.6	4476.6	3745.8	2868.2	2477.7	2319.1	2130.7
-37.5°	5657.3	5453.0	5239.4	4937.3	4341.8	3665.9	2868.2	2490.2	2348.4	2173.7	1975.3
-40°	5251.9	5069.6	4598.0	4075.3	3427.9	2712.6	2477.7	2348.4	2188.1	2009.2	1804.3
-42.5°	4546.0	4133.7	3627.9	3036.6	2550.1	2440.6	2319.1	2173.7	2009.2	1821.0	1632.8
-45°	3471.6	3008.1	2565.7	2475.8	2379.5	2260.9	2130.7	1975.3	1804.3	1632.8	1457.2
-47.5°	2525.9	2455.9	2379.0	2283.0	2174.9	2054.1	1907.9	1754.9	1601.3	1444.7	1311.2
-50°	2319.7	2241.7	2155.9	2057.4	1936.8	1808.2	1676.0	1538.8	1407.2	1286.5	1160.1
-52.5°	2074.4	1988.1	1892.9	1789.4	1681.5	1567.4	1448.4	1345.4	1237.4	1122.6	1002.6
-55°	1780.7	1704.1	1620.4	1529.0	1435.7	1350.5	1260.1	1163.6	1060.8	953.4	844.0
-57.5°	1497.3	1433.5	1371.5	1303.9	1230.8	1151.1	1065.6	975.4	881.9	784.7	687.0
-60°	1260.1	1209.0	1151.1	1087.7	1019.2	945.8	869.2	788.0	702.7	631.7	558.1
-62.5°	1025.0	977.5	925.5	869.2	808.2	742.7	678.8	620.4	558.9	494.2	425.3
-65°	790.9	749.1	702.7	662.2	618.7	572.1	522.3	468.7	411.7	351.9	291.4
-67.5°	587.5	558.1	525.4	489.3	449.6	406.8	361.2	312.8	269.4	226.9	182.5
-70°	400.1	373.5	344.0	311.7	281.2	251.2	219.3	185.4	149.6	124.6	104.7
-72.5°	228.6	210.3	190.0	167.7	143.5	127.4	113.3	98.4	82.6	66.1	53.9
-75°	107.3	99.5	90.7	81.1	70.7	59.5	53.5	49.8	45.9	41.7	37.4
-77.5°	48.7	46.8	44.7	42.4	39.8	37.1	34.2	31.7	30.0	28.3	26.6
-80°	29.3	28.6	27.7	26.8	25.8	24.7	23.6	22.4	21.1	19.9	18.9
-82.5°	18.9	18.4	18.0	17.5	17.0	16.4	15.8	15.1	14.4	13.7	12.9
-85°	11.3	11.1	10.9	10.7	10.5	10.3	10.1	9.8	9.5	9.2	8.9
-87.5°	6.4	6.3	6.2	6.0	5.9	5.7	5.6	5.4	5.2	5.0	4.8
-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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 CATALOG NUMBER: EPH-LS-08-0680R-40-80-3S-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°	4.6	4.4	4.1	3.9	3.7	3.4	3.1	2.9	2.6	2.3	2.0
85°	8.6	8.3	7.9	7.5	7.2	6.8	6.3	5.7	5.2	4.6	4.1
82.5°	12.1	11.5	11.0	10.5	9.9	9.3	8.7	8.2	7.5	6.9	6.1
80°	17.8	16.7	15.5	14.3	13.1	11.9	11.1	10.3	9.5	8.6	7.8
77.5°	24.7	22.7	20.7	19.1	17.6	16.0	14.4	12.7	11.4	10.4	9.3
75°	32.9	30.2	27.8	25.3	22.7	20.2	18.2	16.3	14.2	12.2	10.8
72.5°	48.6	43.1	37.4	31.9	28.9	25.8	22.7	19.7	17.4	15.0	12.5
70°	84.0	62.5	51.4	44.7	37.8	31.5	27.9	24.2	20.5	17.7	15.0
67.5°	136.9	112.7	87.6	61.8	50.0	42.0	33.9	28.9	24.7	20.5	17.4
65°	239.9	186.6	134.4	105.8	76.3	53.1	44.1	34.9	28.9	24.2	19.7
62.5°	353.7	283.5	222.9	160.5	116.7	83.6	54.2	44.1	33.9	27.9	22.7
60°	481.1	400.1	316.6	244.8	175.1	120.4	83.6	53.1	42.0	31.5	25.8
57.5°	604.1	518.3	428.2	335.2	252.1	175.1	116.7	76.3	50.0	37.8	28.9
55°	730.7	631.9	536.8	437.6	335.2	244.8	160.5	105.8	61.8	44.7	31.9
52.5°	879.9	754.4	641.2	536.8	428.2	316.6	222.9	134.4	87.6	51.4	37.4
50°	1027.3	891.9	754.4	631.9	518.3	400.1	283.5	186.6	112.7	62.5	43.1
47.5°	1172.6	1027.3	879.9	730.7	604.1	481.1	353.7	239.9	136.9	84.0	48.6
45°	1311.2	1160.1	1002.6	844.0	687.0	558.1	425.3	291.4	182.5	104.7	53.9
42.5°	1444.7	1286.5	1122.6	953.4	784.7	631.7	494.2	351.9	226.9	124.6	66.1
40°	1601.3	1407.2	1237.4	1060.8	881.9	702.7	558.9	411.7	269.4	149.6	82.6
37.5°	1754.9	1538.8	1345.4	1163.6	975.4	788.0	620.4	468.7	312.8	185.4	98.4
35°	1907.9	1676.0	1448.4	1260.1	1065.6	869.2	678.8	522.3	361.2	219.3	113.3
32.5°	2054.1	1808.2	1567.4	1350.5	1151.1	945.8	742.7	572.1	406.8	251.2	127.4
30°	2174.9	1936.8	1681.5	1435.7	1230.8	1019.2	808.2	618.7	449.6	281.2	143.5
27.5°	2283.0	2057.4	1789.4	1529.0	1303.9	1087.7	869.2	662.2	489.3	311.7	167.7
25°	2379.0	2155.9	1892.9	1620.4	1371.5	1151.1	925.5	702.7	525.4	344.0	190.0
22.5°	2455.9	2241.7	1988.1	1704.1	1433.5	1209.0	977.5	749.1	558.1	373.5	210.3
20°	2525.9	2319.7	2074.4	1780.7	1497.3	1260.1	1025.0	790.9	587.5	400.1	228.6
17.5°	2641.0	2383.8	2140.9	1851.4	1559.2	1305.6	1067.2	828.1	613.7	423.8	244.8
15°	2978.8	2434.6	2197.2	1913.4	1613.4	1345.4	1104.2	860.6	636.6	444.4	259.0
12.5°	3268.3	2478.0	2245.3	1966.3	1659.6	1379.3	1135.6	888.3	656.0	461.9	271.0
10°	3507.7	2513.9	2285.0	2009.9	1697.6	1407.2	1161.5	911.0	672.0	476.3	280.9
7.5°	3695.4	2542.1	2316.1	2044.0	1727.4	1429.0	1181.7	928.8	684.5	487.6	288.6
5°	3830.4	2562.3	2338.4	2068.5	1748.8	1444.7	1196.2	941.5	693.4	495.6	294.2
2.5°	3911.8	2574.4	2351.8	2083.3	1761.6	1454.1	1204.9	949.1	698.8	500.5	297.5
0°	3939.0	2578.5	2356.3	2088.2	1765.9	1457.2	1207.8	951.7	700.6	502.1	298.6
-2.5°	3911.8	2574.4	2351.8	2083.3	1761.6	1454.1	1204.9	949.1	698.8	500.5	297.5
-5°	3830.4	2562.3	2338.4	2068.5	1748.8	1444.7	1196.2	941.5	693.4	495.6	294.2
-7.5°	3695.4	2542.1	2316.1	2044.0	1727.4	1429.0	1181.7	928.8	684.5	487.6	288.6
-10°	3507.7	2513.9	2285.0	2009.9	1697.6	1407.2	1161.5	911.0	672.0	476.3	280.9
-12.5°	3268.3	2478.0	2245.3	1966.3	1659.6	1379.3	1135.6	888.3	656.0	461.9	271.0
-15°	2978.8	2434.6	2197.2	1913.4	1613.4	1345.4	1104.2	860.6	636.6	444.4	259.0
-17.5°	2641.0	2383.8	2140.9	1851.4	1559.2	1305.6	1067.2	828.1	613.7	423.8	244.8
-20°	2525.9	2319.7	2074.4	1780.7	1497.3	1260.1	1025.0	790.9	587.5	400.1	228.6



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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°	2455.9	2241.7	1988.1	1704.1	1433.5	1209.0	977.5	749.1	558.1	373.5	210.3
-25°	2379.0	2155.9	1892.9	1620.4	1371.5	1151.1	925.5	702.7	525.4	344.0	190.0
-27.5°	2283.0	2057.4	1789.4	1529.0	1303.9	1087.7	869.2	662.2	489.3	311.7	167.7
-30°	2174.9	1936.8	1681.5	1435.7	1230.8	1019.2	808.2	618.7	449.6	281.2	143.5
-32.5°	2054.1	1808.2	1567.4	1350.5	1151.1	945.8	742.7	572.1	406.8	251.2	127.4
-35°	1907.9	1676.0	1448.4	1260.1	1065.6	869.2	678.8	522.3	361.2	219.3	113.3
-37.5°	1754.9	1538.8	1345.4	1163.6	975.4	788.0	620.4	468.7	312.8	185.4	98.4
-40°	1601.3	1407.2	1237.4	1060.8	881.9	702.7	558.9	411.7	269.4	149.6	82.6
-42.5°	1444.7	1286.5	1122.6	953.4	784.7	631.7	494.2	351.9	226.9	124.6	66.1
-45°	1311.2	1160.1	1002.6	844.0	687.0	558.1	425.3	291.4	182.5	104.7	53.9
-47.5°	1172.6	1027.3	879.9	730.7	604.1	481.1	353.7	239.9	136.9	84.0	48.6
-50°	1027.3	891.9	754.4	631.9	518.3	400.1	283.5	186.6	112.7	62.5	43.1
-52.5°	879.9	754.4	641.2	536.8	428.2	316.6	222.9	134.4	87.6	51.4	37.4
-55°	730.7	631.9	536.8	437.6	335.2	244.8	160.5	105.8	61.8	44.7	31.9
-57.5°	604.1	518.3	428.2	335.2	252.1	175.1	116.7	76.3	50.0	37.8	28.9
-60°	481.1	400.1	316.6	244.8	175.1	120.4	83.6	53.1	42.0	31.5	25.8
-62.5°	353.7	283.5	222.9	160.5	116.7	83.6	54.2	44.1	33.9	27.9	22.7
-65°	239.9	186.6	134.4	105.8	76.3	53.1	44.1	34.9	28.9	24.2	19.7
-67.5°	136.9	112.7	87.6	61.8	50.0	42.0	33.9	28.9	24.7	20.5	17.4
-70°	84.0	62.5	51.4	44.7	37.8	31.5	27.9	24.2	20.5	17.7	15.0
-72.5°	48.6	43.1	37.4	31.9	28.9	25.8	22.7	19.7	17.4	15.0	12.5
-75°	32.9	30.2	27.8	25.3	22.7	20.2	18.2	16.3	14.2	12.2	10.8
-77.5°	24.7	22.7	20.7	19.1	17.6	16.0	14.4	12.7	11.4	10.4	9.3
-80°	17.8	16.7	15.5	14.3	13.1	11.9	11.1	10.3	9.5	8.6	7.8
-82.5°	12.1	11.5	11.0	10.5	9.9	9.3	8.7	8.2	7.5	6.9	6.1
-85°	8.6	8.3	7.9	7.5	7.2	6.8	6.3	5.7	5.2	4.6	4.1
-87.5°	4.6	4.4	4.1	3.9	3.7	3.4	3.1	2.9	2.6	2.3	2.0
-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°	1.8	1.5	1.2	0.9	0.6	0.3	0.0
85°	3.5	2.9	2.4	1.8	1.2	0.6	0.0
82.5°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
80°	7.0	5.9	4.7	3.5	2.4	1.2	0.0
77.5°	8.3	7.2	5.9	4.4	2.9	1.5	0.0
75°	9.5	8.3	7.0	5.3	3.5	1.8	0.0
72.5°	10.8	9.3	7.8	6.1	4.1	2.0	0.0
70°	12.2	10.4	8.6	6.9	4.6	2.3	0.0
67.5°	14.2	11.4	9.5	7.5	5.2	2.6	0.0
65°	16.3	12.7	10.3	8.2	5.7	2.9	0.0
62.5°	18.2	14.4	11.1	8.7	6.3	3.1	0.0
60°	20.2	16.0	11.9	9.3	6.8	3.4	0.0
57.5°	22.7	17.6	13.1	9.9	7.2	3.7	0.0
55°	25.3	19.1	14.3	10.5	7.5	3.9	0.0
52.5°	27.8	20.7	15.5	11.0	7.9	4.1	0.0
50°	30.2	22.7	16.7	11.5	8.3	4.4	0.0
47.5°	32.9	24.7	17.8	12.1	8.6	4.6	0.0
45°	37.4	26.6	18.9	12.9	8.9	4.8	0.0
42.5°	41.7	28.3	19.9	13.7	9.2	5.0	0.0
40°	45.9	30.0	21.1	14.4	9.5	5.2	0.0
37.5°	49.8	31.7	22.4	15.1	9.8	5.4	0.0
35°	53.5	34.2	23.6	15.8	10.1	5.6	0.0
32.5°	59.5	37.1	24.7	16.4	10.3	5.7	0.0
30°	70.7	39.8	25.8	17.0	10.5	5.9	0.0
27.5°	81.1	42.4	26.8	17.5	10.7	6.0	0.0
25°	90.7	44.7	27.7	18.0	10.9	6.2	0.0
22.5°	99.5	46.8	28.6	18.4	11.1	6.3	0.0
20°	107.3	48.7	29.3	18.9	11.3	6.4	0.0
17.5°	114.3	50.4	30.0	19.2	11.4	6.5	0.0
15°	120.4	51.9	30.6	19.5	11.6	6.6	0.0
12.5°	125.6	53.1	31.1	19.8	11.7	6.6	0.0
10°	129.8	54.2	31.5	20.0	11.7	6.7	0.0
7.5°	133.1	55.0	31.8	20.2	11.8	6.7	0.0
5°	135.5	55.5	32.0	20.3	11.9	6.8	0.0
2.5°	136.9	55.9	32.2	20.4	11.9	6.8	0.0
0°	137.4	56.0	32.2	20.4	11.9	6.8	0.0
-2.5°	136.9	55.9	32.2	20.4	11.9	6.8	0.0
-5°	135.5	55.5	32.0	20.3	11.9	6.8	0.0
-7.5°	133.1	55.0	31.8	20.2	11.8	6.7	0.0
-10°	129.8	54.2	31.5	20.0	11.7	6.7	0.0
-12.5°	125.6	53.1	31.1	19.8	11.7	6.6	0.0
-15°	120.4	51.9	30.6	19.5	11.6	6.6	0.0
-17.5°	114.3	50.4	30.0	19.2	11.4	6.5	0.0
-20°	107.3	48.7	29.3	18.9	11.3	6.4	0.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	99.5	46.8	28.6	18.4	11.1	6.3	0.0
-25°	90.7	44.7	27.7	18.0	10.9	6.2	0.0
-27.5°	81.1	42.4	26.8	17.5	10.7	6.0	0.0
-30°	70.7	39.8	25.8	17.0	10.5	5.9	0.0
-32.5°	59.5	37.1	24.7	16.4	10.3	5.7	0.0
-35°	53.5	34.2	23.6	15.8	10.1	5.6	0.0
-37.5°	49.8	31.7	22.4	15.1	9.8	5.4	0.0
-40°	45.9	30.0	21.1	14.4	9.5	5.2	0.0
-42.5°	41.7	28.3	19.9	13.7	9.2	5.0	0.0
-45°	37.4	26.6	18.9	12.9	8.9	4.8	0.0
-47.5°	32.9	24.7	17.8	12.1	8.6	4.6	0.0
-50°	30.2	22.7	16.7	11.5	8.3	4.4	0.0
-52.5°	27.8	20.7	15.5	11.0	7.9	4.1	0.0
-55°	25.3	19.1	14.3	10.5	7.5	3.9	0.0
-57.5°	22.7	17.6	13.1	9.9	7.2	3.7	0.0
-60°	20.2	16.0	11.9	9.3	6.8	3.4	0.0
-62.5°	18.2	14.4	11.1	8.7	6.3	3.1	0.0
-65°	16.3	12.7	10.3	8.2	5.7	2.9	0.0
-67.5°	14.2	11.4	9.5	7.5	5.2	2.6	0.0
-70°	12.2	10.4	8.6	6.9	4.6	2.3	0.0
-72.5°	10.8	9.3	7.8	6.1	4.1	2.0	0.0
-75°	9.5	8.3	7.0	5.3	3.5	1.8	0.0
-77.5°	8.3	7.2	5.9	4.4	2.9	1.5	0.0
-80°	7.0	5.9	4.7	3.5	2.4	1.2	0.0
-82.5°	5.3	4.4	3.5	2.7	1.8	0.9	0.0
-85°	3.5	2.9	2.4	1.8	1.2	0.6	0.0
-87.5°	1.8	1.5	1.2	0.9	0.6	0.3	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

