

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: P701481 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0640L-40-70-7F-CV5-S**

Issue Date: 8/29/2023

Test Information

Test Method: LM-79-08
Report Number: P701481 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-42)
Test Lab: INNOVATION CENTER
Issue Date: 8/29/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0640L-40-70-7F-CV5-S
Description: EPHESUS LUMASPORT 8 LUMINAIRE
(8) 4000K, 70 CRI LEDS AND 7F BEAM SHAPE WITH 5 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

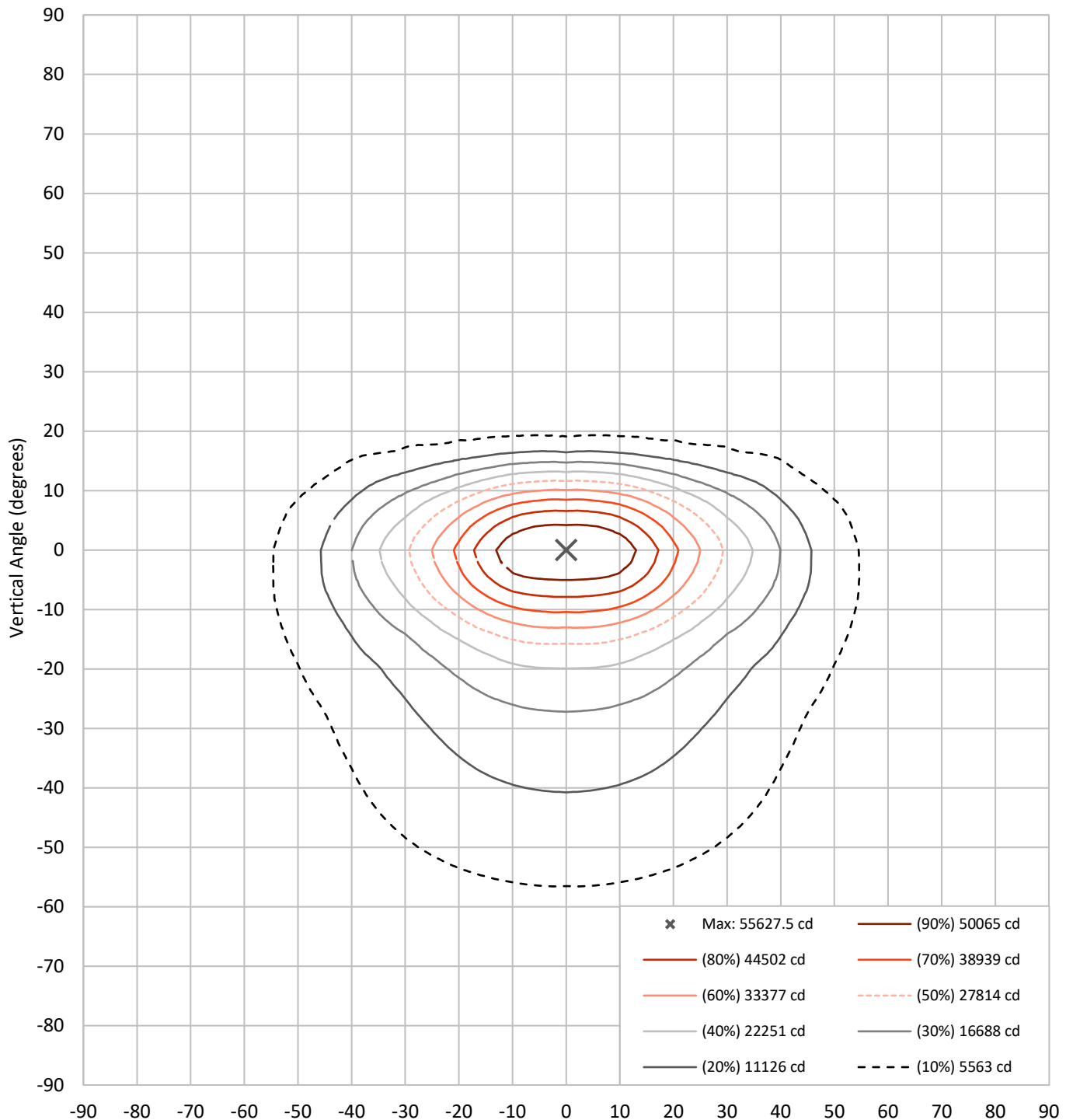
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	37429.8 lumens	Max Intensity:	55627.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	56.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	58.6°H x 27.3°V	Field Angle (10%):	109.1°H x 75.6°V
Beam Lumens:	14876.1 lumens	Field Lumens:	32939 lumens
Beam Efficiency:	39.7%	Field Efficiency:	88.0%

Input Watts (W): 658
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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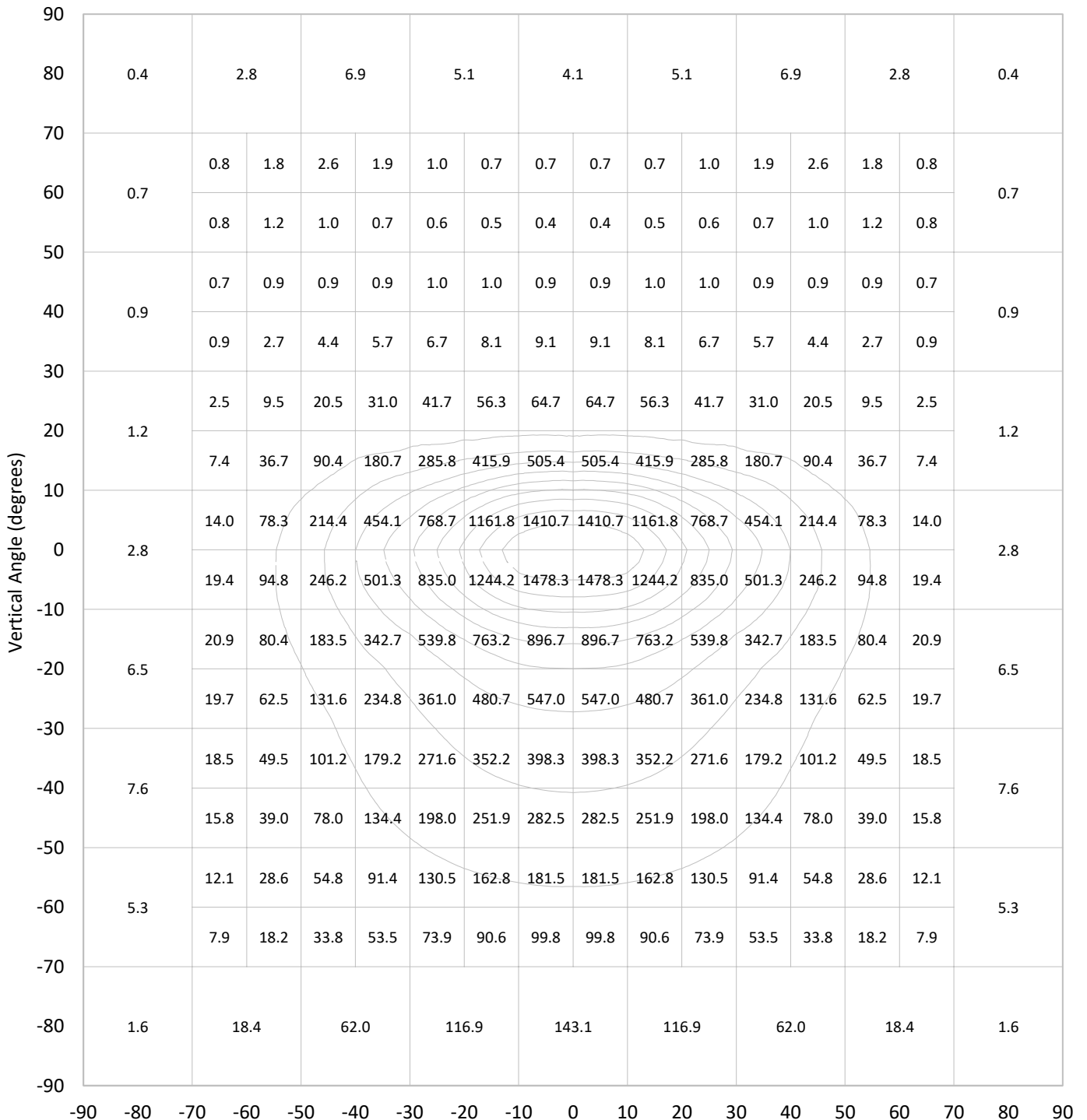
Iso-Candela Plot





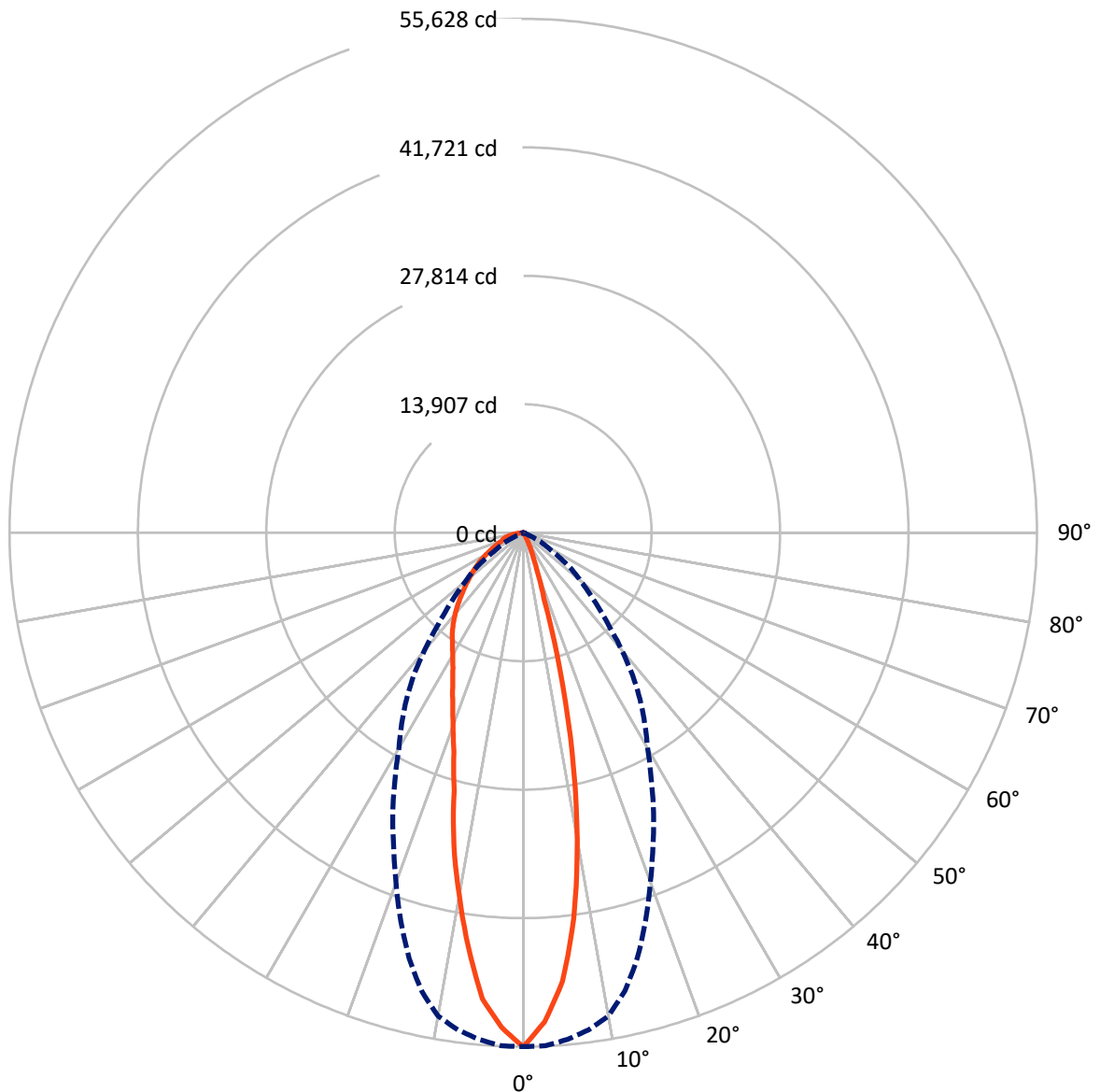
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Lumen Table



REPORT NUMBER: P701481 (CONVERTED FROM TYPE C PHOTOMETRY)
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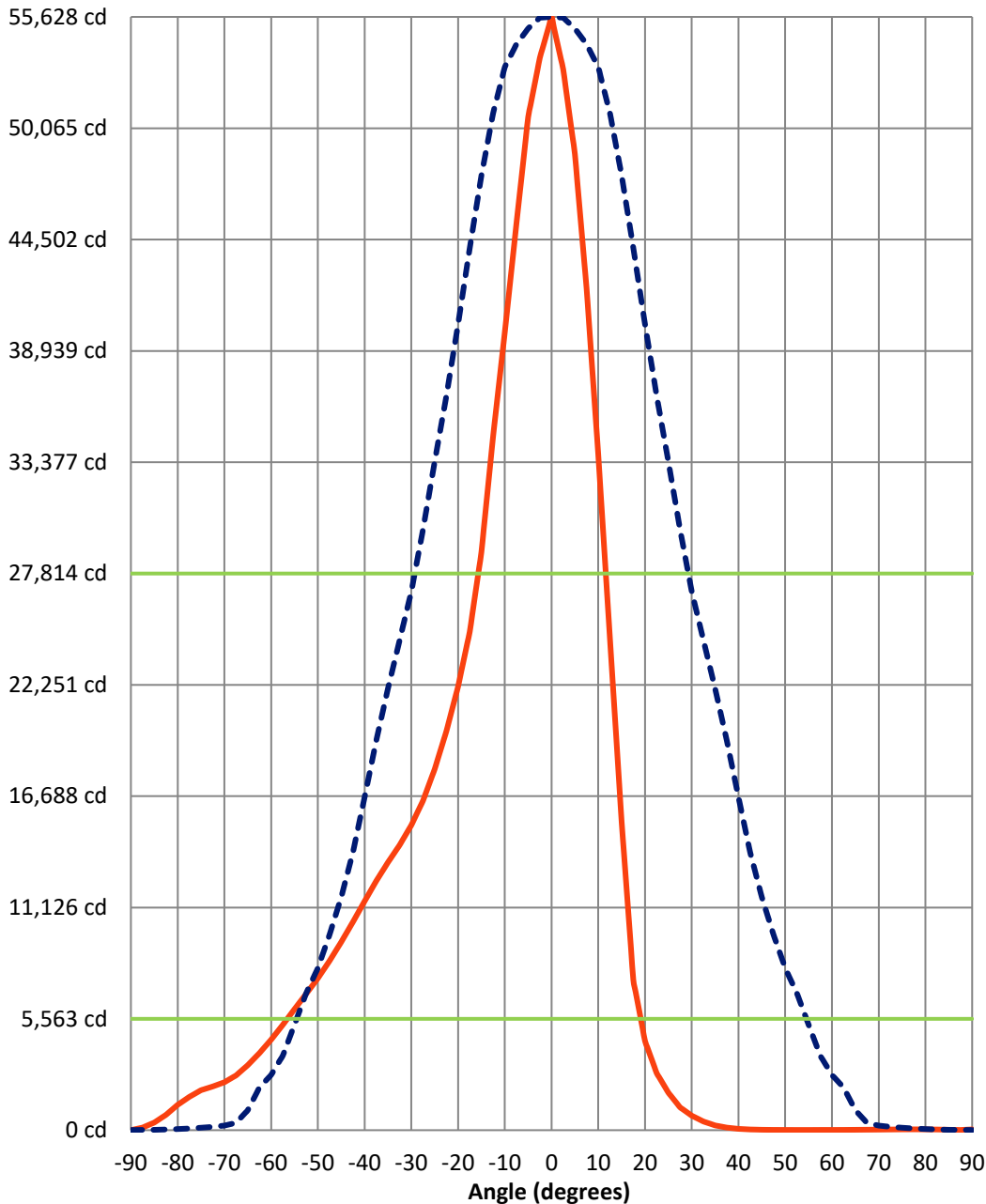
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 58.6°
 V Angle: 27.3°
 Lumens: 14876.1
 Efficiency: 39.7%

Field:
 H Angle: 109.1°
 V Angle: 75.6°
 Lumens: 32939
 Efficiency: 88.0%

Spill:
 Lumens: 4490.8
 Efficiency: 12.0%

— 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°	8.1	9.1	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6	14.1
87.5°	8.1	8.5	9.0	9.6	10.4	11.3	12.3	12.5	12.6	12.6	12.4
85°	8.1	8.8	9.9	11.1	12.7	14.4	16.5	16.9	17.1	17.0	16.7
82.5°	8.1	9.1	10.7	12.6	14.9	17.6	20.6	21.4	21.8	23.4	26.2
80°	8.1	9.5	11.6	14.1	17.1	20.6	24.4	25.5	28.1	32.5	38.6
77.5°	8.1	9.8	12.4	15.6	19.3	23.0	26.3	29.3	34.2	41.3	48.4
75°	8.1	10.2	13.3	17.0	21.1	24.0	28.0	32.8	39.6	45.4	51.4
72.5°	8.1	10.5	14.1	18.4	21.5	24.9	29.7	35.6	41.5	47.7	54.1
70°	8.1	10.8	14.8	19.5	21.8	25.7	31.1	37.0	43.3	49.9	56.1
67.5°	8.1	11.1	15.6	19.4	22.0	26.3	32.3	38.4	45.0	51.5	57.9
65°	8.1	11.4	16.3	19.2	22.1	27.2	33.5	39.6	46.3	53.0	60.2
62.5°	8.1	11.7	17.0	19.1	22.2	28.3	34.7	40.7	47.5	54.6	63.7
60°	8.1	12.0	17.6	18.9	22.1	29.4	35.9	41.7	48.7	57.2	66.8
57.5°	8.1	12.3	17.5	18.6	23.0	30.5	37.2	42.7	50.4	59.6	68.0
55°	8.1	12.5	17.3	18.3	23.9	31.5	38.6	44.1	52.0	61.2	68.2
52.5°	8.1	12.7	17.2	17.9	24.8	32.6	40.1	46.0	53.4	61.2	68.2
50°	8.1	13.0	17.1	17.5	25.6	34.0	41.6	47.9	54.2	61.2	64.9
47.5°	8.1	13.2	17.0	17.3	26.4	35.4	43.2	49.8	54.0	61.0	61.6
45°	8.1	13.4	16.9	17.9	27.2	36.8	44.9	51.8	55.3	58.6	58.8
42.5°	8.1	13.5	16.9	18.4	27.9	38.2	46.6	53.4	56.8	56.5	56.0
40°	8.1	13.7	16.8	19.3	28.8	39.6	48.2	54.8	58.2	55.2	53.6
37.5°	8.1	13.8	16.8	20.4	29.9	41.0	49.9	56.4	59.2	56.6	51.6
35°	8.1	14.0	16.8	21.4	30.9	42.3	51.5	58.1	60.8	59.0	51.9
32.5°	8.1	14.1	16.9	22.5	31.9	43.5	53.0	59.9	62.8	62.9	62.1
30°	8.1	14.2	16.9	23.6	32.8	44.7	54.4	61.8	65.3	68.0	74.9
27.5°	8.1	14.3	17.0	24.7	34.8	45.8	55.8	63.7	68.8	74.3	90.0
25°	8.1	14.3	17.1	25.8	37.0	46.9	57.3	65.8	73.6	85.1	109.0
22.5°	8.1	14.4	17.2	26.8	39.2	48.7	58.7	68.2	79.2	98.7	171.0
20°	8.1	14.4	17.3	27.8	41.4	52.5	60.1	70.7	85.3	113.3	241.7
17.5°	8.1	14.4	17.4	28.9	43.5	56.5	65.3	73.3	91.8	128.8	319.3
15°	8.1	14.4	17.5	29.8	45.7	60.6	73.1	80.7	98.7	144.9	401.8
12.5°	8.1	14.4	17.6	30.7	47.7	64.8	81.4	94.4	114.5	161.2	487.1
10°	8.1	14.4	17.8	31.6	49.7	69.0	89.8	108.6	137.7	199.6	582.4
7.5°	8.1	14.3	17.9	32.4	51.6	73.2	98.4	123.0	161.2	241.9	695.9
5°	8.1	14.3	18.0	33.2	53.4	77.3	106.9	137.5	184.7	284.3	805.0
2.5°	8.1	14.2	18.1	33.8	55.1	81.2	115.2	151.8	207.9	325.9	906.8
0°	8.1	14.1	18.2	34.4	56.6	84.9	123.3	165.8	230.4	365.9	998.5
-2.5°	8.1	14.4	19.6	38.6	66.1	103.3	155.5	218.9	311.0	477.1	1110.9
-5°	8.1	14.7	21.0	42.7	75.4	121.3	186.8	270.7	389.5	584.4	1210.5
-7.5°	8.1	15.0	22.3	46.5	84.2	138.5	216.9	320.4	464.7	686.6	1297.7
-10°	8.1	15.2	23.6	50.2	92.6	154.7	245.3	367.3	535.6	782.3	1372.7
-12.5°	8.1	15.5	24.8	53.6	100.3	169.8	271.5	410.7	601.1	866.6	1403.3
-15°	8.1	15.7	26.0	56.7	107.4	183.6	295.4	449.9	654.5	917.9	1409.9
-17.5°	8.1	15.9	27.0	59.4	113.7	195.7	316.4	484.0	695.3	962.6	1410.1
-20°	8.1	16.0	28.0	61.7	119.1	206.2	336.1	513.5	731.3	1000.4	1405.0



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
-22.5°	8.1	16.2	28.9	63.7	123.5	214.8	356.0	538.8	762.1	1030.9	1395.7
-25°	8.1	16.3	29.7	65.2	126.9	225.7	373.0	559.7	787.5	1053.8	1383.4
-27.5°	8.1	16.4	30.3	66.2	129.2	236.4	386.8	575.8	807.3	1072.8	1402.4
-30°	8.1	16.4	30.8	66.7	130.8	244.6	397.4	587.1	823.1	1091.6	1413.5
-32.5°	8.1	16.5	31.2	66.7	135.0	250.5	404.6	597.1	833.6	1103.2	1415.0
-35°	8.1	16.5	31.5	66.2	137.7	253.8	410.2	603.6	837.5	1107.4	1406.8
-37.5°	8.1	16.4	31.6	65.1	138.8	255.3	413.0	605.5	834.5	1104.2	1360.8
-40°	8.1	16.3	31.6	63.5	138.2	255.8	411.9	602.6	824.8	1094.0	1312.7
-42.5°	8.1	16.2	31.4	61.9	137.2	253.7	407.1	595.0	813.7	1049.6	1257.9
-45°	8.1	16.1	31.1	60.9	135.9	249.0	398.4	583.4	799.2	996.6	1196.7
-47.5°	8.1	15.9	30.7	59.0	133.2	241.6	386.0	568.0	777.9	939.0	1131.7
-50°	8.1	15.7	30.1	58.4	129.1	231.7	372.3	547.6	731.8	885.9	1061.5
-52.5°	8.1	15.5	29.4	57.9	123.6	219.2	355.5	522.3	683.1	827.9	987.0
-55°	8.1	15.2	28.5	56.7	116.7	208.1	335.0	492.5	631.6	765.4	915.0
-57.5°	8.1	14.9	27.5	54.9	108.4	195.6	311.1	460.9	577.2	701.7	837.8
-60°	8.1	14.6	26.4	52.5	99.2	181.1	284.8	418.8	521.3	635.5	757.8
-62.5°	8.1	14.3	25.4	49.6	93.1	164.7	261.4	372.6	468.4	566.2	678.4
-65°	8.1	13.9	24.3	46.2	86.1	146.6	235.5	327.8	414.0	502.7	595.7
-67.5°	8.1	13.5	23.2	42.3	78.2	130.0	207.2	288.7	358.2	439.9	521.2
-70°	8.1	13.1	21.9	38.0	69.5	115.5	176.8	248.8	313.3	375.6	449.7
-72.5°	8.1	12.6	20.6	34.7	60.1	99.8	152.0	208.3	268.0	325.4	380.5
-75°	8.1	12.1	19.2	31.7	50.0	83.0	127.0	172.2	222.0	274.9	325.8
-77.5°	8.1	11.7	17.8	28.4	43.3	65.4	100.6	136.6	177.0	222.6	270.5
-80°	8.1	11.2	16.3	25.0	37.2	52.7	73.2	100.1	130.9	166.0	205.1
-82.5°	8.1	10.7	14.8	21.5	30.9	42.7	57.1	69.2	83.8	108.0	135.3
-85°	8.1	10.1	13.3	17.9	24.4	32.5	42.3	50.5	59.3	68.8	78.9
-87.5°	8.1	9.6	11.7	14.3	17.8	22.1	27.2	31.6	36.3	41.3	46.6
-90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1



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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°	14.6	15.2	15.7	16.2	17.7	19.2	20.7	22.2	24.7	27.3	29.8
87.5°	13.2	14.1	15.1	16.2	15.5	14.6	13.5	12.4	13.3	14.3	15.3
85°	18.3	20.2	22.7	24.8	24.7	24.8	25.2	25.8	27.6	29.0	30.2
82.5°	29.6	32.3	34.2	35.4	37.2	39.6	42.8	47.6	50.2	51.9	53.0
80°	42.3	44.6	46.3	49.7	55.7	62.7	70.3	78.4	81.1	81.4	80.6
77.5°	50.7	54.1	59.6	67.2	76.2	85.0	94.5	104.5	107.5	106.8	105.3
75°	56.2	62.8	71.1	81.4	92.4	103.6	115.5	126.4	129.5	126.3	122.0
72.5°	60.6	69.2	80.2	93.8	106.1	117.6	129.9	143.0	147.4	140.4	131.6
70°	63.6	74.5	87.8	102.0	116.1	128.6	140.1	152.7	159.8	147.8	130.3
67.5°	66.1	79.6	94.1	108.8	121.5	133.4	146.5	150.5	152.3	134.1	115.3
65°	69.8	84.3	97.5	110.5	124.2	128.1	130.9	133.7	130.8	110.1	89.7
62.5°	73.4	85.4	98.1	108.1	111.4	113.4	111.1	105.7	98.4	84.1	67.5
60°	74.5	85.1	93.3	96.4	97.3	93.1	86.7	80.2	72.7	60.9	49.4
57.5°	74.9	80.3	83.4	84.1	80.2	73.5	67.2	58.9	52.5	45.0	35.7
55°	73.1	72.0	73.5	71.0	65.4	58.3	50.9	45.2	37.7	33.3	27.9
52.5°	68.1	65.2	63.9	59.8	53.5	47.0	40.9	35.5	31.1	26.3	22.8
50°	63.6	59.7	55.5	50.6	45.8	41.4	34.6	30.7	27.1	23.3	20.3
47.5°	59.4	54.9	48.6	44.4	43.9	41.3	34.6	28.7	25.4	25.3	22.5
45°	55.8	51.9	44.6	45.4	46.7	46.6	41.9	28.1	31.2	31.8	30.2
42.5°	52.6	51.0	53.0	48.3	55.9	60.0	56.4	47.0	41.8	46.4	48.3
40°	53.0	52.2	69.9	69.4	70.4	81.4	86.7	80.0	61.6	73.0	78.2
37.5°	55.1	73.4	95.3	102.5	96.1	114.8	126.2	133.9	119.4	110.1	126.3
35°	58.5	99.9	132.6	147.9	148.7	159.6	188.9	200.9	191.3	176.6	189.6
32.5°	76.4	131.5	176.6	202.7	226.6	237.8	263.9	276.3	286.8	286.8	281.3
30°	114.4	173.3	227.7	263.3	320.9	373.3	361.9	364.6	403.3	442.6	461.7
27.5°	179.2	225.1	284.8	348.9	437.0	538.8	557.0	505.3	557.9	630.7	695.2
25°	260.7	381.7	345.5	451.0	597.5	738.9	814.0	849.8	777.9	883.7	1036.4
22.5°	373.4	580.1	581.9	562.3	778.1	975.6	1160.7	1338.0	1429.8	1314.8	1473.6
20°	525.4	792.3	877.8	972.7	1048.1	1244.8	1564.3	1951.3	2305.7	2506.4	2414.4
17.5°	699.9	1024.0	1220.2	1474.2	1725.2	1832.6	2036.0	2669.7	3357.8	3943.5	4258.4
15°	892.0	1271.5	1590.6	2027.4	2478.7	2818.8	3171.3	3715.9	4624.1	5626.1	6428.3
12.5°	1096.2	1530.7	1981.9	2620.3	3290.7	3850.1	4478.7	5306.7	6354.5	7604.4	8911.1
10°	1306.7	1797.0	2386.5	3239.6	4144.1	4912.1	5811.7	6897.8	8235.7	9793.0	11435.3
7.5°	1529.7	2057.6	2785.3	3871.1	5019.9	5989.1	7152.3	8474.0	10097.4	11948.6	13928.4
5°	1745.7	2303.5	3117.7	4378.9	5730.7	6898.0	8373.7	10013.9	11917.5	14046.7	16379.9
2.5°	1947.2	2538.9	3432.6	4843.6	6307.4	7519.4	9099.4	10862.9	13010.3	15520.7	18219.2
0°	2128.5	2761.2	3725.3	5271.7	6840.2	8097.5	9765.1	11640.9	13878.6	16633.7	19469.6
-2.5°	2207.1	2877.1	3857.2	5335.5	6827.0	8108.0	9712.6	11626.2	13784.1	16410.9	19192.6
-5°	2262.7	2975.0	3961.3	5358.6	6769.7	8070.2	9600.6	11523.4	13483.9	15820.4	18312.6
-7.5°	2297.8	3052.9	4036.3	5319.3	6582.8	7773.8	9105.1	10743.0	12530.5	14610.3	16804.5
-10°	2305.2	3044.5	3923.6	5063.2	6219.6	7311.6	8498.0	9920.3	11518.8	13337.6	15245.2
-12.5°	2233.6	2960.2	3764.8	4788.8	5843.6	6831.5	7870.4	9078.7	10464.1	12027.7	13716.4
-15°	2155.9	2864.8	3594.1	4502.9	5464.0	6341.7	7233.0	8235.2	9464.3	10888.8	12345.2
-17.5°	2076.0	2759.9	3415.0	4211.7	5089.2	5849.7	6629.9	7581.7	8683.0	9883.5	11068.9
-20°	1997.6	2647.1	3230.9	3920.9	4725.1	5443.1	6204.0	7040.3	7964.9	8943.2	9885.6



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1924.0	2527.9	3060.6	3677.1	4412.2	5100.7	5780.3	6498.9	7264.5	8056.5	9051.0
-25°	1874.7	2413.4	2912.0	3483.6	4118.4	4753.9	5353.3	5971.1	6630.0	7506.1	8427.2
-27.5°	1844.0	2315.9	2781.4	3289.4	3837.2	4411.7	4954.2	5499.1	6233.8	7022.1	7837.3
-30°	1813.9	2219.0	2645.4	3105.8	3604.4	4102.8	4569.8	5185.5	5870.5	6591.8	7316.7
-32.5°	1756.6	2117.2	2521.5	2947.5	3388.2	3819.7	4307.4	4912.8	5541.1	6175.2	6829.6
-35°	1685.6	2027.4	2399.9	2786.7	3181.8	3608.5	4102.9	4635.9	5213.2	5803.1	6448.8
-37.5°	1623.5	1929.6	2273.9	2634.5	3004.7	3425.0	3879.5	4377.5	4903.6	5455.3	6071.8
-40°	1554.7	1824.3	2154.5	2492.7	2840.3	3233.1	3661.2	4113.7	4597.9	5125.4	5678.8
-42.5°	1480.9	1740.6	2031.7	2347.2	2677.7	3036.9	3425.8	3851.2	4303.0	4783.2	5290.1
-45°	1412.3	1650.5	1906.7	2201.4	2507.1	2833.8	3194.3	3576.3	4004.5	4446.6	4903.2
-47.5°	1336.2	1556.6	1799.2	2045.7	2332.1	2633.3	2952.8	3314.2	3692.5	4103.0	4524.6
-50°	1254.1	1463.3	1676.8	1902.4	2152.9	2428.2	2720.1	3045.3	3395.4	3754.0	4133.2
-52.5°	1169.6	1361.8	1555.1	1756.0	1979.6	2224.1	2489.6	2777.4	3092.5	3421.4	3748.6
-55°	1079.5	1257.1	1429.0	1611.7	1806.5	2024.4	2259.0	2515.5	2779.8	3079.3	3367.6
-57.5°	988.5	1144.8	1301.2	1467.1	1640.8	1823.2	2036.8	2254.1	2492.5	2738.7	2978.8
-60°	894.4	1030.8	1169.9	1319.7	1476.6	1641.9	1815.8	2009.8	2211.6	2410.9	2622.4
-62.5°	796.8	917.0	1039.5	1167.8	1308.8	1457.7	1613.1	1774.8	1941.2	2114.5	2285.5
-65°	702.6	804.5	911.3	1023.7	1136.7	1273.1	1410.7	1546.7	1692.2	1832.6	1969.6
-67.5°	606.7	703.3	793.1	880.8	985.0	1102.1	1210.1	1333.4	1455.3	1570.7	1682.3
-70°	527.1	604.5	687.0	766.3	848.4	948.0	1054.0	1152.0	1244.3	1341.1	1445.6
-72.5°	450.6	525.2	594.2	657.7	740.8	834.0	921.0	1001.9	1089.9	1181.8	1266.4
-75°	380.5	445.6	513.0	575.3	644.6	725.9	813.5	895.9	970.7	1045.1	1122.1
-77.5°	313.1	362.0	418.7	482.6	551.3	614.6	683.8	758.5	828.4	899.3	974.6
-80°	240.4	275.3	313.7	358.0	409.1	465.0	524.9	588.7	644.6	696.0	746.7
-82.5°	161.8	188.4	215.3	242.4	270.9	301.0	334.2	374.9	411.1	447.4	484.3
-85°	89.6	100.8	119.2	137.9	153.7	170.4	188.1	206.6	223.8	240.6	257.1
-87.5°	52.2	58.1	64.2	70.6	74.9	79.0	82.8	86.5	91.4	96.2	100.7
-90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	32.3	32.8	33.4	33.9	34.4	35.9	37.4	38.9	40.4	39.9	39.4
87.5°	16.4	16.1	15.9	15.6	15.3	16.8	18.3	19.9	21.6	19.8	17.9
85°	31.1	31.3	31.3	31.2	31.0	33.1	35.2	37.2	39.1	36.1	32.9
82.5°	53.3	52.4	50.5	48.0	44.8	44.1	43.3	42.0	40.5	38.8	37.3
80°	79.1	75.4	70.5	64.8	58.4	55.0	51.8	48.2	44.3	43.1	42.2
77.5°	102.0	95.2	86.8	77.7	68.1	62.2	57.3	52.2	46.9	45.8	45.3
75°	116.6	107.7	95.5	82.9	69.9	61.7	55.8	50.0	44.3	42.6	41.9
72.5°	121.1	108.7	94.5	78.7	63.4	53.8	48.2	43.3	38.9	37.0	36.2
70°	113.3	96.8	81.0	65.8	51.8	42.8	39.0	35.6	32.7	31.4	31.0
67.5°	95.7	78.4	63.7	50.9	40.7	34.2	32.0	29.9	28.1	27.0	26.2
65°	72.7	59.2	48.4	39.9	33.4	29.4	27.6	25.9	24.3	23.0	22.1
62.5°	53.4	43.6	37.2	32.3	28.6	25.9	24.2	22.7	21.5	20.6	19.8
60°	40.3	33.4	29.5	26.5	24.1	22.3	21.3	20.4	19.5	18.7	17.9
57.5°	30.8	26.7	23.8	22.3	21.2	20.4	19.6	18.6	17.7	16.8	16.0
55°	24.3	22.2	20.6	20.1	19.6	18.9	18.0	17.2	16.2	14.9	14.0
52.5°	20.4	20.2	20.2	19.9	19.3	18.7	18.1	16.8	15.6	14.4	13.6
50°	20.2	20.3	20.4	20.0	19.5	18.9	18.3	17.4	16.6	15.7	15.2
47.5°	21.0	21.2	22.4	20.5	20.2	20.8	20.4	19.6	19.4	18.9	18.4
45°	24.6	28.9	30.1	28.5	25.0	27.8	26.9	23.7	25.6	25.3	23.8
42.5°	44.0	48.5	52.1	49.8	42.6	45.0	45.0	40.2	41.5	41.7	39.8
40°	83.8	82.2	87.9	85.6	77.9	75.0	78.3	72.8	71.7	74.5	71.2
37.5°	138.0	138.9	136.3	136.7	133.9	126.4	130.9	129.3	124.8	133.4	134.4
35°	215.7	222.4	201.3	209.7	213.3	205.1	210.3	225.0	215.5	235.8	241.4
32.5°	319.8	333.7	323.8	314.1	330.0	342.7	348.6	379.8	388.1	406.5	428.4
30°	448.2	484.3	512.7	494.9	492.9	537.7	563.5	605.4	646.1	670.4	715.0
27.5°	715.3	704.3	771.9	791.9	747.3	818.9	915.9	934.4	1058.2	1068.2	1154.8
25°	1130.5	1124.8	1145.1	1243.3	1268.2	1304.0	1470.6	1558.5	1700.6	1777.2	1843.6
22.5°	1688.0	1845.6	1872.4	1827.3	2043.0	2184.0	2230.6	2483.9	2599.7	2772.6	2824.6
20°	2385.3	2751.8	3214.7	3222.0	3133.2	3539.5	3707.9	3841.0	4124.0	4321.2	4454.9
17.5°	4213.4	4210.6	5156.1	5678.5	5619.4	5911.9	6739.5	6654.1	7322.8	7728.1	7745.1
15°	6896.4	7396.5	7996.5	8944.0	9750.5	10400.5	11186.3	12212.9	13044.4	14020.9	14762.2
12.5°	9965.8	10950.6	11977.6	13058.5	14324.1	15761.3	17324.5	18693.0	20321.0	21745.6	23218.7
10°	13041.2	14600.9	16050.4	17665.7	19464.6	21379.1	23671.7	25674.7	28082.7	30194.8	31583.3
7.5°	15861.2	17732.4	19691.3	22039.3	24550.2	26954.3	29549.7	32359.1	35176.3	37616.6	39688.8
5°	18617.6	20721.1	22892.3	25478.8	28348.1	31360.6	34572.1	37894.7	40846.7	43626.6	46046.1
2.5°	20779.9	23189.4	25669.9	28594.7	31681.7	34734.7	37949.5	41526.3	44959.5	48210.8	50696.4
0°	22065.0	24482.6	26916.3	30015.0	33404.8	36685.4	40269.3	44077.5	47701.8	50810.6	53115.0
-2.5°	21553.0	23907.8	26366.9	29428.3	32694.2	35750.9	39175.1	42864.0	46374.3	49522.9	51914.5
-5°	20395.5	22508.2	24762.4	27593.1	30648.3	33685.2	37042.3	40551.5	43579.8	46374.5	48518.7
-7.5°	18767.9	20716.9	22819.3	25439.9	28249.5	30901.6	33645.6	36476.8	39232.5	41622.7	43387.0
-10°	17039.3	18803.6	20613.3	22714.9	25109.4	27424.2	29739.5	32321.8	34593.0	36566.2	38021.2
-12.5°	15305.7	16755.1	18182.8	19789.7	21844.4	23927.7	25930.1	28095.5	29904.5	31532.4	32826.8
-15°	13641.6	14770.0	15853.3	17408.7	19218.0	20756.5	21988.8	23950.0	25178.0	26625.1	27530.0
-17.5°	12095.0	12996.0	14312.6	15649.6	16940.4	18204.8	19626.6	20787.7	21993.1	23175.1	23952.8
-20°	10878.0	11992.4	13105.2	14192.6	15301.6	16508.4	17633.9	18731.1	19781.5	20690.0	21313.6



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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°	10085.9	11075.2	12011.9	12990.4	14070.7	15084.2	16035.1	17045.4	17943.6	18621.9	19129.2
-25°	9325.3	10185.6	11097.0	12075.9	12990.0	13843.0	14718.7	15498.6	16265.0	16829.8	17304.5
-27.5°	8639.7	9455.9	10353.8	11221.4	12036.2	12833.4	13577.5	14223.7	14862.2	15313.9	15785.9
-30°	8043.3	8870.0	9686.7	10458.0	11223.2	11945.5	12601.6	13215.1	13750.8	14190.8	14586.5
-32.5°	7592.8	8342.5	9069.7	9791.4	10516.6	11182.5	11756.9	12346.1	12839.1	13260.9	13619.3
-35°	7147.4	7852.3	8524.5	9185.7	9853.3	10495.3	11051.4	11564.5	12049.7	12427.3	12755.7
-37.5°	6713.1	7370.4	7992.3	8587.0	9197.8	9789.6	10296.9	10778.9	11212.6	11561.5	11873.1
-40°	6275.6	6877.7	7433.7	7987.8	8536.5	9032.5	9509.3	9953.2	10324.8	10646.5	10930.0
-42.5°	5823.5	6353.6	6855.2	7362.3	7863.5	8302.4	8723.2	9122.0	9438.3	9723.4	9968.9
-45°	5369.8	5836.2	6295.8	6751.3	7163.8	7569.0	7950.4	8287.2	8572.3	8824.8	9037.7
-47.5°	4933.0	5329.5	5749.9	6165.4	6519.7	6866.5	7200.2	7485.7	7733.3	7954.1	8141.5
-50°	4496.5	4850.3	5217.0	5573.6	5898.5	6202.9	6482.6	6732.0	6957.7	7148.6	7309.3
-52.5°	4064.4	4392.9	4706.4	4996.3	5291.5	5571.5	5831.6	6049.7	6247.5	6424.0	6565.6
-55°	3651.9	3942.4	4235.6	4482.4	4721.1	4954.2	5170.8	5365.6	5544.8	5707.0	5834.0
-57.5°	3235.8	3489.1	3734.1	3955.5	4169.6	4375.4	4550.8	4703.5	4846.5	4977.6	5089.5
-60°	2834.2	3045.3	3252.2	3437.0	3615.3	3786.5	3936.0	4065.9	4181.1	4282.7	4374.5
-62.5°	2457.1	2638.6	2803.5	2952.6	3092.2	3231.8	3359.2	3471.6	3569.1	3652.7	3724.6
-65°	2110.5	2260.6	2392.5	2516.0	2631.9	2749.5	2851.8	2944.1	3026.2	3095.3	3150.6
-67.5°	1802.3	1919.8	2029.6	2125.2	2223.8	2323.8	2416.4	2497.2	2566.9	2622.1	2665.0
-70°	1542.3	1637.4	1735.9	1831.2	1925.1	2011.1	2091.1	2162.7	2226.4	2273.9	2311.8
-72.5°	1343.9	1424.1	1514.9	1611.1	1700.2	1785.7	1867.1	1942.8	2013.3	2058.6	2093.9
-75°	1201.4	1284.2	1365.4	1445.6	1524.6	1599.8	1675.5	1752.8	1830.9	1876.9	1913.9
-77.5°	1044.0	1102.0	1162.4	1227.9	1297.5	1364.9	1430.9	1496.0	1559.8	1591.9	1616.3
-80°	800.4	846.7	892.1	938.2	984.4	1031.9	1079.7	1127.2	1173.9	1195.4	1211.6
-82.5°	521.7	553.5	583.7	612.8	640.7	664.4	686.6	707.3	726.3	735.7	742.1
-85°	273.2	287.2	300.5	312.9	324.7	332.0	338.2	343.5	347.8	353.7	358.7
-87.5°	105.2	109.1	113.0	116.8	120.5	122.3	123.8	125.2	126.4	128.2	130.0
-90°	8.1	7.6	7.1	6.6	6.1	5.6	5.1	4.5	4.0	4.0	4.0



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	38.9	38.4	39.4	40.4	39.4	38.4	38.9	39.4	39.9	40.4	38.9
87.5°	16.0	14.1	13.1	12.1	13.1	14.1	16.0	17.9	19.8	21.6	19.9
85°	29.6	26.2	24.2	22.2	24.2	26.2	29.6	32.9	36.1	39.1	37.2
82.5°	35.8	34.3	34.4	34.4	34.4	34.3	35.8	37.3	38.8	40.5	42.0
80°	41.3	40.3	40.4	40.4	40.4	40.3	41.3	42.2	43.1	44.3	48.2
77.5°	44.9	44.4	43.5	42.4	43.5	44.4	44.9	45.3	45.8	46.9	52.2
75°	41.2	40.5	40.4	40.4	40.4	40.5	41.2	41.9	42.6	44.3	50.0
72.5°	35.3	34.6	34.4	34.4	34.4	34.6	35.3	36.2	37.0	38.9	43.3
70°	30.6	30.4	29.4	28.3	29.4	30.4	30.6	31.0	31.4	32.7	35.6
67.5°	25.4	24.6	24.3	24.3	24.3	24.6	25.4	26.2	27.0	28.1	29.9
65°	21.2	20.5	20.2	20.2	20.2	20.5	21.2	22.1	23.0	24.3	25.9
62.5°	19.1	18.4	17.4	16.2	17.4	18.4	19.1	19.8	20.6	21.5	22.7
60°	17.2	16.5	15.3	14.1	15.3	16.5	17.2	17.9	18.7	19.5	20.4
57.5°	15.2	14.4	14.1	14.1	14.1	14.4	15.2	16.0	16.8	17.7	18.6
55°	13.2	12.4	12.1	12.1	12.1	12.4	13.2	14.0	14.9	16.2	17.2
52.5°	13.0	12.4	12.1	12.1	12.1	12.4	13.0	13.6	14.4	15.6	16.8
50°	14.8	14.3	14.1	14.1	14.1	14.3	14.8	15.2	15.7	16.6	17.4
47.5°	17.7	16.7	16.2	16.2	16.2	16.7	17.7	18.4	18.9	19.4	19.6
45°	23.3	22.5	22.1	22.2	22.1	22.5	23.3	23.8	25.3	25.6	23.7
42.5°	40.3	39.1	37.5	36.4	37.5	39.1	40.3	39.8	41.7	41.5	40.2
40°	71.4	69.8	67.5	66.7	67.5	69.8	71.4	71.2	74.5	71.7	72.8
37.5°	136.2	135.2	130.9	129.4	130.9	135.2	136.2	134.4	133.4	124.8	129.3
35°	240.9	242.8	238.7	238.5	238.7	242.8	240.9	241.4	235.8	215.5	225.0
32.5°	435.6	440.3	428.0	434.6	428.0	440.3	435.6	428.4	406.5	388.1	379.8
30°	713.5	729.4	722.4	725.7	722.4	729.4	713.5	715.0	670.4	646.1	605.4
27.5°	1163.3	1175.2	1150.7	1142.1	1150.7	1175.2	1163.3	1154.8	1068.2	1058.2	934.4
25°	1881.0	1888.4	1864.5	1873.8	1864.5	1888.4	1881.0	1843.6	1777.2	1700.6	1558.5
22.5°	2930.1	2902.0	2875.4	2850.1	2875.4	2902.0	2930.1	2824.6	2772.6	2599.7	2483.9
20°	4579.1	4514.4	4505.7	4457.1	4505.7	4514.4	4579.1	4454.9	4321.2	4124.0	3841.0
17.5°	8158.5	8276.0	8015.3	7511.3	8015.3	8276.0	8158.5	7745.1	7728.1	7322.8	6654.1
15°	15198.9	15750.5	15987.4	15408.7	15987.4	15750.5	15198.9	14762.2	14020.9	13044.4	12212.9
12.5°	24031.8	24420.2	24890.5	24547.3	24890.5	24420.2	24031.8	23218.7	21745.6	20321.0	18693.0
10°	32776.0	33357.3	34069.2	33748.4	34069.2	33357.3	32776.0	31583.3	30194.8	28082.7	25674.7
7.5°	40829.2	41830.9	42456.5	42054.2	42456.5	41830.9	40829.2	39688.8	37616.6	35176.3	32359.1
5°	47702.1	48494.0	48871.1	48767.0	48871.1	48494.0	47702.1	46046.1	43626.6	40846.7	37894.7
2.5°	52109.7	52945.7	53283.5	53002.8	53283.5	52945.7	52109.7	50696.4	48210.8	44959.5	41526.3
0°	54264.1	55047.4	55585.0	55627.5	55585.0	55047.4	54264.1	53115.0	50810.6	47701.8	44077.5
-2.5°	53019.2	53495.1	53752.3	53580.9	53752.3	53495.1	53019.2	51914.5	49522.9	46374.3	42864.0
-5°	49758.6	50261.9	50425.2	50624.7	50425.2	50261.9	49758.6	48518.7	46374.5	43579.8	40551.5
-7.5°	44379.4	44931.6	45338.7	45321.7	45338.7	44931.6	44379.4	43387.0	41622.7	39232.5	36476.8
-10°	39103.4	39513.6	39938.4	39867.1	39938.4	39513.6	39103.4	38021.2	36566.2	34593.0	32321.8
-12.5°	33874.5	34559.0	34725.2	34675.2	34725.2	34559.0	33874.5	32826.8	31532.4	29904.5	28095.5
-15°	28560.3	29067.4	29025.9	28891.1	29025.9	29067.4	28560.3	27530.0	26625.1	25178.0	23950.0
-17.5°	24625.9	24905.5	25012.4	24907.1	25012.4	24905.5	24625.9	23952.8	23175.1	21993.1	20787.7
-20°	21826.2	22042.3	22115.1	22164.1	22115.1	22042.3	21826.2	21313.6	20690.0	19781.5	18731.1



REPORT NUMBER: P701481 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	19566.1	19786.9	19850.8	19934.5	19850.8	19786.9	19566.1	19129.2	18621.9	17943.6	17045.4
-25°	17670.8	17886.5	17959.4	18042.6	17959.4	17886.5	17670.8	17304.5	16829.8	16265.0	15498.6
-27.5°	16102.5	16313.1	16400.8	16463.9	16400.8	16313.1	16102.5	15785.9	15313.9	14862.2	14223.7
-30°	14867.6	15074.9	15200.2	15241.0	15200.2	15074.9	14867.6	14586.5	14190.8	13750.8	13215.1
-32.5°	13887.7	14068.7	14186.6	14246.5	14186.6	14068.7	13887.7	13619.3	13260.9	12839.1	12346.1
-35°	13015.1	13196.8	13319.2	13381.3	13319.2	13196.8	13015.1	12755.7	12427.3	12049.7	11564.5
-37.5°	12122.7	12320.6	12450.1	12453.5	12450.1	12320.6	12122.7	11873.1	11561.5	11212.6	10778.9
-40°	11138.1	11295.0	11397.8	11438.8	11397.8	11295.0	11138.1	10930.0	10646.5	10324.8	9953.2
-42.5°	10150.7	10283.9	10367.2	10401.9	10367.2	10283.9	10150.7	9968.9	9723.4	9438.3	9122.0
-45°	9207.8	9342.2	9411.6	9401.3	9411.6	9342.2	9207.8	9037.7	8824.8	8572.3	8287.2
-47.5°	8285.4	8389.7	8446.6	8459.3	8446.6	8389.7	8285.4	8141.5	7954.1	7733.3	7485.7
-50°	7445.8	7556.3	7603.5	7590.2	7603.5	7556.3	7445.8	7309.3	7148.6	6957.7	6732.0
-52.5°	6682.3	6776.2	6816.9	6811.9	6816.9	6776.2	6682.3	6565.6	6424.0	6247.5	6049.7
-55°	5937.9	6019.0	6051.3	6045.9	6051.3	6019.0	5937.9	5834.0	5707.0	5544.8	5365.6
-57.5°	5182.4	5255.5	5277.1	5263.6	5277.1	5255.5	5182.4	5089.5	4977.6	4846.5	4703.5
-60°	4450.7	4510.8	4529.6	4521.8	4529.6	4510.8	4450.7	4374.5	4282.7	4181.1	4065.9
-62.5°	3783.9	3830.4	3849.5	3850.7	3849.5	3830.4	3783.9	3724.6	3652.7	3569.1	3471.6
-65°	3195.5	3229.9	3245.3	3248.3	3245.3	3229.9	3195.5	3150.6	3095.3	3026.2	2944.1
-67.5°	2699.7	2726.5	2735.9	2736.9	2735.9	2726.5	2699.7	2665.0	2622.1	2566.9	2497.2
-70°	2345.7	2375.7	2388.2	2395.3	2388.2	2375.7	2345.7	2311.8	2273.9	2226.4	2162.7
-72.5°	2127.0	2157.8	2172.3	2183.1	2172.3	2157.8	2127.0	2093.9	2058.6	2013.3	1942.8
-75°	1949.0	1981.7	1992.0	1997.1	1992.0	1981.7	1949.0	1913.9	1876.9	1830.9	1752.8
-77.5°	1637.4	1655.1	1661.6	1663.6	1661.6	1655.1	1637.4	1616.3	1591.9	1559.8	1496.0
-80°	1224.3	1233.6	1251.2	1265.4	1251.2	1233.6	1224.3	1211.6	1195.4	1173.9	1127.2
-82.5°	746.0	747.6	757.8	766.1	757.8	747.6	746.0	742.1	735.7	726.3	707.3
-85°	362.8	366.1	374.5	382.0	374.5	366.1	362.8	358.7	353.7	347.8	343.5
-87.5°	131.6	133.0	132.3	131.4	132.3	133.0	131.6	130.0	128.2	126.4	125.2
-90°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.5



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	37.4	35.9	34.4	33.9	33.4	32.8	32.3	29.8	27.3	24.7	22.2
87.5°	18.3	16.8	15.3	15.6	15.9	16.1	16.4	15.3	14.3	13.3	12.4
85°	35.2	33.1	31.0	31.2	31.3	31.3	31.1	30.2	29.0	27.6	25.8
82.5°	43.3	44.1	44.8	48.0	50.5	52.4	53.3	53.0	51.9	50.2	47.6
80°	51.8	55.0	58.4	64.8	70.5	75.4	79.1	80.6	81.4	81.1	78.4
77.5°	57.3	62.2	68.1	77.7	86.8	95.2	102.0	105.3	106.8	107.5	104.5
75°	55.8	61.7	69.9	82.9	95.5	107.7	116.6	122.0	126.3	129.5	126.4
72.5°	48.2	53.8	63.4	78.7	94.5	108.7	121.1	131.6	140.4	147.4	143.0
70°	39.0	42.8	51.8	65.8	81.0	96.8	113.3	130.3	147.8	159.8	152.7
67.5°	32.0	34.2	40.7	50.9	63.7	78.4	95.7	115.3	134.1	152.3	150.5
65°	27.6	29.4	33.4	39.9	48.4	59.2	72.7	89.7	110.1	130.8	133.7
62.5°	24.2	25.9	28.6	32.3	37.2	43.6	53.4	67.5	84.1	98.4	105.7
60°	21.3	22.3	24.1	26.5	29.5	33.4	40.3	49.4	60.9	72.7	80.2
57.5°	19.6	20.4	21.2	22.3	23.8	26.7	30.8	35.7	45.0	52.5	58.9
55°	18.0	18.9	19.6	20.1	20.6	22.2	24.3	27.9	33.3	37.7	45.2
52.5°	18.1	18.7	19.3	19.9	20.2	20.2	20.4	22.8	26.3	31.1	35.5
50°	18.3	18.9	19.5	20.0	20.4	20.3	20.2	20.3	23.3	27.1	30.7
47.5°	20.4	20.8	20.2	20.5	22.4	21.2	21.0	22.5	25.3	25.4	28.7
45°	26.9	27.8	25.0	28.5	30.1	28.9	24.6	30.2	31.8	31.2	28.1
42.5°	45.0	45.0	42.6	49.8	52.1	48.5	44.0	48.3	46.4	41.8	47.0
40°	78.3	75.0	77.9	85.6	87.9	82.2	83.8	78.2	73.0	61.6	80.0
37.5°	130.9	126.4	133.9	136.7	136.3	138.9	138.0	126.3	110.1	119.4	133.9
35°	210.3	205.1	213.3	209.7	201.3	222.4	215.7	189.6	176.6	191.3	200.9
32.5°	348.6	342.7	330.0	314.1	323.8	333.7	319.8	281.3	286.8	286.8	276.3
30°	563.5	537.7	492.9	494.9	512.7	484.3	448.2	461.7	442.6	403.3	364.6
27.5°	915.9	818.9	747.3	791.9	771.9	704.3	715.3	695.2	630.7	557.9	505.3
25°	1470.6	1304.0	1268.2	1243.3	1145.1	1124.8	1130.5	1036.4	883.7	777.9	849.8
22.5°	2230.6	2184.0	2043.0	1827.3	1872.4	1845.6	1688.0	1473.6	1314.8	1429.8	1338.0
20°	3707.9	3539.5	3133.2	3222.0	3214.7	2751.8	2385.3	2414.4	2506.4	2305.7	1951.3
17.5°	6739.5	5911.9	5619.4	5678.5	5156.1	4210.6	4213.4	4258.4	3943.5	3357.8	2669.7
15°	11186.3	10400.5	9750.5	8944.0	7996.5	7396.5	6896.4	6428.3	5626.1	4624.1	3715.9
12.5°	17324.5	15761.3	14324.1	13058.5	11977.6	10950.6	9965.8	8911.1	7604.4	6354.5	5306.7
10°	23671.7	21379.1	19464.6	17665.7	16050.4	14600.9	13041.2	11435.3	9793.0	8235.7	6897.8
7.5°	29549.7	26954.3	24550.2	22039.3	19691.3	17732.4	15861.2	13928.4	11948.6	10097.4	8474.0
5°	34572.1	31360.6	28348.1	25478.8	22892.3	20721.1	18617.6	16379.9	14046.7	11917.5	10013.9
2.5°	37949.5	34734.7	31681.7	28594.7	25669.9	23189.4	20779.9	18219.2	15520.7	13010.3	10862.9
0°	40269.3	36685.4	33404.8	30015.0	26916.3	24482.6	22065.0	19469.6	16633.7	13878.6	11640.9
-2.5°	39175.1	35750.9	32694.2	29428.3	26366.9	23907.8	21553.0	19192.6	16410.9	13784.1	11626.2
-5°	37042.3	33685.2	30648.3	27593.1	24762.4	22508.2	20395.5	18312.6	15820.4	13483.9	11523.4
-7.5°	33645.6	30901.6	28249.5	25439.9	22819.3	20716.9	18767.9	16804.5	14610.3	12530.5	10743.0
-10°	29739.5	27424.2	25109.4	22714.9	20613.3	18803.6	17039.3	15245.2	13337.6	11518.8	9920.3
-12.5°	25930.1	23927.7	21844.4	19789.7	18182.8	16755.1	15305.7	13716.4	12027.7	10464.1	9078.7
-15°	21988.8	20756.5	19218.0	17408.7	15853.3	14770.0	13641.6	12345.2	10888.8	9464.3	8235.2
-17.5°	19626.6	18204.8	16940.4	15649.6	14312.6	12996.0	12095.0	11068.9	9883.5	8683.0	7581.7
-20°	17633.9	16508.4	15301.6	14192.6	13105.2	11992.4	10878.0	9885.6	8943.2	7964.9	7040.3



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 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	16035.1	15084.2	14070.7	12990.4	12011.9	11075.2	10085.9	9051.0	8056.5	7264.5	6498.9
-25°	14718.7	13843.0	12990.0	12075.9	11097.0	10185.6	9325.3	8427.2	7506.1	6630.0	5971.1
-27.5°	13577.5	12833.4	12036.2	11221.4	10353.8	9455.9	8639.7	7837.3	7022.1	6233.8	5499.1
-30°	12601.6	11945.5	11223.2	10458.0	9686.7	8870.0	8043.3	7316.7	6591.8	5870.5	5185.5
-32.5°	11756.9	11182.5	10516.6	9791.4	9069.7	8342.5	7592.8	6829.6	6175.2	5541.1	4912.8
-35°	11051.4	10495.3	9853.3	9185.7	8524.5	7852.3	7147.4	6448.8	5803.1	5213.2	4635.9
-37.5°	10296.9	9789.6	9197.8	8587.0	7992.3	7370.4	6713.1	6071.8	5455.3	4903.6	4377.5
-40°	9509.3	9032.5	8536.5	7987.8	7433.7	6877.7	6275.6	5678.8	5125.4	4597.9	4113.7
-42.5°	8723.2	8302.4	7863.5	7362.3	6855.2	6353.6	5823.5	5290.1	4783.2	4303.0	3851.2
-45°	7950.4	7569.0	7163.8	6751.3	6295.8	5836.2	5369.8	4903.2	4446.6	4004.5	3576.3
-47.5°	7200.2	6866.5	6519.7	6165.4	5749.9	5329.5	4933.0	4524.6	4103.0	3692.5	3314.2
-50°	6482.6	6202.9	5898.5	5573.6	5217.0	4850.3	4496.5	4133.2	3754.0	3395.4	3045.3
-52.5°	5831.6	5571.5	5291.5	4996.3	4706.4	4392.9	4064.4	3748.6	3421.4	3092.5	2777.4
-55°	5170.8	4954.2	4721.1	4482.4	4235.6	3942.4	3651.9	3367.6	3079.3	2779.8	2515.5
-57.5°	4550.8	4375.4	4169.6	3955.5	3734.1	3489.1	3235.8	2978.8	2738.7	2492.5	2254.1
-60°	3936.0	3786.5	3615.3	3437.0	3252.2	3045.3	2834.2	2622.4	2410.9	2211.6	2009.8
-62.5°	3359.2	3231.8	3092.2	2952.6	2803.5	2638.6	2457.1	2285.5	2114.5	1941.2	1774.8
-65°	2851.8	2749.5	2631.9	2516.0	2392.5	2260.6	2110.5	1969.6	1832.6	1692.2	1546.7
-67.5°	2416.4	2323.8	2223.8	2125.2	2029.6	1919.8	1802.3	1682.3	1570.7	1455.3	1333.4
-70°	2091.1	2011.1	1925.1	1831.2	1735.9	1637.4	1542.3	1445.6	1341.1	1244.3	1152.0
-72.5°	1867.1	1785.7	1700.2	1611.1	1514.9	1424.1	1343.9	1266.4	1181.8	1089.9	1001.9
-75°	1675.5	1599.8	1524.6	1445.6	1365.4	1284.2	1201.4	1122.1	1045.1	970.7	895.9
-77.5°	1430.9	1364.9	1297.5	1227.9	1162.4	1102.0	1044.0	974.6	899.3	828.4	758.5
-80°	1079.7	1031.9	984.4	938.2	892.1	846.7	800.4	746.7	696.0	644.6	588.7
-82.5°	686.6	664.4	640.7	612.8	583.7	553.5	521.7	484.3	447.4	411.1	374.9
-85°	338.2	332.0	324.7	312.9	300.5	287.2	273.2	257.1	240.6	223.8	206.6
-87.5°	123.8	122.3	120.5	116.8	113.0	109.1	105.2	100.7	96.2	91.4	86.5
-90°	5.1	5.6	6.1	6.6	7.1	7.6	8.1	8.1	8.1	8.1	8.1



REPORT NUMBER: P701481 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0640L-40-70-7F-CV5-S

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	20.7	19.2	17.7	16.2	15.7	15.2	14.6	14.1	13.6	13.1	12.6
87.5°	13.5	14.6	15.5	16.2	15.1	14.1	13.2	12.4	12.6	12.6	12.5
85°	25.2	24.8	24.7	24.8	22.7	20.2	18.3	16.7	17.0	17.1	16.9
82.5°	42.8	39.6	37.2	35.4	34.2	32.3	29.6	26.2	23.4	21.8	21.4
80°	70.3	62.7	55.7	49.7	46.3	44.6	42.3	38.6	32.5	28.1	25.5
77.5°	94.5	85.0	76.2	67.2	59.6	54.1	50.7	48.4	41.3	34.2	29.3
75°	115.5	103.6	92.4	81.4	71.1	62.8	56.2	51.4	45.4	39.6	32.8
72.5°	129.9	117.6	106.1	93.8	80.2	69.2	60.6	54.1	47.7	41.5	35.6
70°	140.1	128.6	116.1	102.0	87.8	74.5	63.6	56.1	49.9	43.3	37.0
67.5°	146.5	133.4	121.5	108.8	94.1	79.6	66.1	57.9	51.5	45.0	38.4
65°	130.9	128.1	124.2	110.5	97.5	84.3	69.8	60.2	53.0	46.3	39.6
62.5°	111.1	113.4	111.4	108.1	98.1	85.4	73.4	63.7	54.6	47.5	40.7
60°	86.7	93.1	97.3	96.4	93.3	85.1	74.5	66.8	57.2	48.7	41.7
57.5°	67.2	73.5	80.2	84.1	83.4	80.3	74.9	68.0	59.6	50.4	42.7
55°	50.9	58.3	65.4	71.0	73.5	72.0	73.1	68.2	61.2	52.0	44.1
52.5°	40.9	47.0	53.5	59.8	63.9	65.2	68.1	68.2	61.2	53.4	46.0
50°	34.6	41.4	45.8	50.6	55.5	59.7	63.6	64.9	61.2	54.2	47.9
47.5°	34.6	41.3	43.9	44.4	48.6	54.9	59.4	61.6	61.0	54.0	49.8
45°	41.9	46.6	46.7	45.4	44.6	51.9	55.8	58.8	58.6	55.3	51.8
42.5°	56.4	60.0	55.9	48.3	53.0	51.0	52.6	56.0	56.5	56.8	53.4
40°	86.7	81.4	70.4	69.4	69.9	52.2	53.0	53.6	55.2	58.2	54.8
37.5°	126.2	114.8	96.1	102.5	95.3	73.4	55.1	51.6	56.6	59.2	56.4
35°	188.9	159.6	148.7	147.9	132.6	99.9	58.5	51.9	59.0	60.8	58.1
32.5°	263.9	237.8	226.6	202.7	176.6	131.5	76.4	62.1	62.9	62.8	59.9
30°	361.9	373.3	320.9	263.3	227.7	173.3	114.4	74.9	68.0	65.3	61.8
27.5°	557.0	538.8	437.0	348.9	284.8	225.1	179.2	90.0	74.3	68.8	63.7
25°	814.0	738.9	597.5	451.0	345.5	381.7	260.7	109.0	85.1	73.6	65.8
22.5°	1160.7	975.6	778.1	562.3	581.9	580.1	373.4	171.0	98.7	79.2	68.2
20°	1564.3	1244.8	1048.1	972.7	877.8	792.3	525.4	241.7	113.3	85.3	70.7
17.5°	2036.0	1832.6	1725.2	1474.2	1220.2	1024.0	699.9	319.3	128.8	91.8	73.3
15°	3171.3	2818.8	2478.7	2027.4	1590.6	1271.5	892.0	401.8	144.9	98.7	80.7
12.5°	4478.7	3850.1	3290.7	2620.3	1981.9	1530.7	1096.2	487.1	161.2	114.5	94.4
10°	5811.7	4912.1	4144.1	3239.6	2386.5	1797.0	1306.7	582.4	199.6	137.7	108.6
7.5°	7152.3	5989.1	5019.9	3871.1	2785.3	2057.6	1529.7	695.9	241.9	161.2	123.0
5°	8373.7	6898.0	5730.7	4378.9	3117.7	2303.5	1745.7	805.0	284.3	184.7	137.5
2.5°	9099.4	7519.4	6307.4	4843.6	3432.6	2538.9	1947.2	906.8	325.9	207.9	151.8
0°	9765.1	8097.5	6840.2	5271.7	3725.3	2761.2	2128.5	998.5	365.9	230.4	165.8
-2.5°	9712.6	8108.0	6827.0	5335.5	3857.2	2877.1	2207.1	1110.9	477.1	311.0	218.9
-5°	9600.6	8070.2	6769.7	5358.6	3961.3	2975.0	2262.7	1210.5	584.4	389.5	270.7
-7.5°	9105.1	7773.8	6582.8	5319.3	4036.3	3052.9	2297.8	1297.7	686.6	464.7	320.4
-10°	8498.0	7311.6	6219.6	5063.2	3923.6	3044.5	2305.2	1372.7	782.3	535.6	367.3
-12.5°	7870.4	6831.5	5843.6	4788.8	3764.8	2960.2	2233.6	1403.3	866.6	601.1	410.7
-15°	7233.0	6341.7	5464.0	4502.9	3594.1	2864.8	2155.9	1409.9	917.9	654.5	449.9
-17.5°	6629.9	5849.7	5089.2	4211.7	3415.0	2759.9	2076.0	1410.1	962.6	695.3	484.0
-20°	6204.0	5443.1	4725.1	3920.9	3230.9	2647.1	1997.6	1405.0	1000.4	731.3	513.5



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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°	5780.3	5100.7	4412.2	3677.1	3060.6	2527.9	1924.0	1395.7	1030.9	762.1	538.8
-25°	5353.3	4753.9	4118.4	3483.6	2912.0	2413.4	1874.7	1383.4	1053.8	787.5	559.7
-27.5°	4954.2	4411.7	3837.2	3289.4	2781.4	2315.9	1844.0	1402.4	1072.8	807.3	575.8
-30°	4569.8	4102.8	3604.4	3105.8	2645.4	2219.0	1813.9	1413.5	1091.6	823.1	587.1
-32.5°	4307.4	3819.7	3388.2	2947.5	2521.5	2117.2	1756.6	1415.0	1103.2	833.6	597.1
-35°	4102.9	3608.5	3181.8	2786.7	2399.9	2027.4	1685.6	1406.8	1107.4	837.5	603.6
-37.5°	3879.5	3425.0	3004.7	2634.5	2273.9	1929.6	1623.5	1360.8	1104.2	834.5	605.5
-40°	3661.2	3233.1	2840.3	2492.7	2154.5	1824.3	1554.7	1312.7	1094.0	824.8	602.6
-42.5°	3425.8	3036.9	2677.7	2347.2	2031.7	1740.6	1480.9	1257.9	1049.6	813.7	595.0
-45°	3194.3	2833.8	2507.1	2201.4	1906.7	1650.5	1412.3	1196.7	996.6	799.2	583.4
-47.5°	2952.8	2633.3	2332.1	2045.7	1799.2	1556.6	1336.2	1131.7	939.0	777.9	568.0
-50°	2720.1	2428.2	2152.9	1902.4	1676.8	1463.3	1254.1	1061.5	885.9	731.8	547.6
-52.5°	2489.6	2224.1	1979.6	1756.0	1555.1	1361.8	1169.6	987.0	827.9	683.1	522.3
-55°	2259.0	2024.4	1806.5	1611.7	1429.0	1257.1	1079.5	915.0	765.4	631.6	492.5
-57.5°	2036.8	1823.2	1640.8	1467.1	1301.2	1144.8	988.5	837.8	701.7	577.2	460.9
-60°	1815.8	1641.9	1476.6	1319.7	1169.9	1030.8	894.4	757.8	635.5	521.3	418.8
-62.5°	1613.1	1457.7	1308.8	1167.8	1039.5	917.0	796.8	678.4	566.2	468.4	372.6
-65°	1410.7	1273.1	1136.7	1023.7	911.3	804.5	702.6	595.7	502.7	414.0	327.8
-67.5°	1210.1	1102.1	985.0	880.8	793.1	703.3	606.7	521.2	439.9	358.2	288.7
-70°	1054.0	948.0	848.4	766.3	687.0	604.5	527.1	449.7	375.6	313.3	248.8
-72.5°	921.0	834.0	740.8	657.7	594.2	525.2	450.6	380.5	325.4	268.0	208.3
-75°	813.5	725.9	644.6	575.3	513.0	445.6	380.5	325.8	274.9	222.0	172.2
-77.5°	683.8	614.6	551.3	482.6	418.7	362.0	313.1	270.5	222.6	177.0	136.6
-80°	524.9	465.0	409.1	358.0	313.7	275.3	240.4	205.1	166.0	130.9	100.1
-82.5°	334.2	301.0	270.9	242.4	215.3	188.4	161.8	135.3	108.0	83.8	69.2
-85°	188.1	170.4	153.7	137.9	119.2	100.8	89.6	78.9	68.8	59.3	50.5
-87.5°	82.8	79.0	74.9	70.6	64.2	58.1	52.2	46.6	41.3	36.3	31.6
-90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	12.1	11.6	11.1	10.6	10.1	9.1	8.1
87.5°	12.3	11.3	10.4	9.6	9.0	8.5	8.1
85°	16.5	14.4	12.7	11.1	9.9	8.8	8.1
82.5°	20.6	17.6	14.9	12.6	10.7	9.1	8.1
80°	24.4	20.6	17.1	14.1	11.6	9.5	8.1
77.5°	26.3	23.0	19.3	15.6	12.4	9.8	8.1
75°	28.0	24.0	21.1	17.0	13.3	10.2	8.1
72.5°	29.7	24.9	21.5	18.4	14.1	10.5	8.1
70°	31.1	25.7	21.8	19.5	14.8	10.8	8.1
67.5°	32.3	26.3	22.0	19.4	15.6	11.1	8.1
65°	33.5	27.2	22.1	19.2	16.3	11.4	8.1
62.5°	34.7	28.3	22.2	19.1	17.0	11.7	8.1
60°	35.9	29.4	22.1	18.9	17.6	12.0	8.1
57.5°	37.2	30.5	23.0	18.6	17.5	12.3	8.1
55°	38.6	31.5	23.9	18.3	17.3	12.5	8.1
52.5°	40.1	32.6	24.8	17.9	17.2	12.7	8.1
50°	41.6	34.0	25.6	17.5	17.1	13.0	8.1
47.5°	43.2	35.4	26.4	17.3	17.0	13.2	8.1
45°	44.9	36.8	27.2	17.9	16.9	13.4	8.1
42.5°	46.6	38.2	27.9	18.4	16.9	13.5	8.1
40°	48.2	39.6	28.8	19.3	16.8	13.7	8.1
37.5°	49.9	41.0	29.9	20.4	16.8	13.8	8.1
35°	51.5	42.3	30.9	21.4	16.8	14.0	8.1
32.5°	53.0	43.5	31.9	22.5	16.9	14.1	8.1
30°	54.4	44.7	32.8	23.6	16.9	14.2	8.1
27.5°	55.8	45.8	34.8	24.7	17.0	14.3	8.1
25°	57.3	46.9	37.0	25.8	17.1	14.3	8.1
22.5°	58.7	48.7	39.2	26.8	17.2	14.4	8.1
20°	60.1	52.5	41.4	27.8	17.3	14.4	8.1
17.5°	65.3	56.5	43.5	28.9	17.4	14.4	8.1
15°	73.1	60.6	45.7	29.8	17.5	14.4	8.1
12.5°	81.4	64.8	47.7	30.7	17.6	14.4	8.1
10°	89.8	69.0	49.7	31.6	17.8	14.4	8.1
7.5°	98.4	73.2	51.6	32.4	17.9	14.3	8.1
5°	106.9	77.3	53.4	33.2	18.0	14.3	8.1
2.5°	115.2	81.2	55.1	33.8	18.1	14.2	8.1
0°	123.3	84.9	56.6	34.4	18.2	14.1	8.1
-2.5°	155.5	103.3	66.1	38.6	19.6	14.4	8.1
-5°	186.8	121.3	75.4	42.7	21.0	14.7	8.1
-7.5°	216.9	138.5	84.2	46.5	22.3	15.0	8.1
-10°	245.3	154.7	92.6	50.2	23.6	15.2	8.1
-12.5°	271.5	169.8	100.3	53.6	24.8	15.5	8.1
-15°	295.4	183.6	107.4	56.7	26.0	15.7	8.1
-17.5°	316.4	195.7	113.7	59.4	27.0	15.9	8.1
-20°	336.1	206.2	119.1	61.7	28.0	16.0	8.1



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	356.0	214.8	123.5	63.7	28.9	16.2	8.1
-25°	373.0	225.7	126.9	65.2	29.7	16.3	8.1
-27.5°	386.8	236.4	129.2	66.2	30.3	16.4	8.1
-30°	397.4	244.6	130.8	66.7	30.8	16.4	8.1
-32.5°	404.6	250.5	135.0	66.7	31.2	16.5	8.1
-35°	410.2	253.8	137.7	66.2	31.5	16.5	8.1
-37.5°	413.0	255.3	138.8	65.1	31.6	16.4	8.1
-40°	411.9	255.8	138.2	63.5	31.6	16.3	8.1
-42.5°	407.1	253.7	137.2	61.9	31.4	16.2	8.1
-45°	398.4	249.0	135.9	60.9	31.1	16.1	8.1
-47.5°	386.0	241.6	133.2	59.0	30.7	15.9	8.1
-50°	372.3	231.7	129.1	58.4	30.1	15.7	8.1
-52.5°	355.5	219.2	123.6	57.9	29.4	15.5	8.1
-55°	335.0	208.1	116.7	56.7	28.5	15.2	8.1
-57.5°	311.1	195.6	108.4	54.9	27.5	14.9	8.1
-60°	284.8	181.1	99.2	52.5	26.4	14.6	8.1
-62.5°	261.4	164.7	93.1	49.6	25.4	14.3	8.1
-65°	235.5	146.6	86.1	46.2	24.3	13.9	8.1
-67.5°	207.2	130.0	78.2	42.3	23.2	13.5	8.1
-70°	176.8	115.5	69.5	38.0	21.9	13.1	8.1
-72.5°	152.0	99.8	60.1	34.7	20.6	12.6	8.1
-75°	127.0	83.0	50.0	31.7	19.2	12.1	8.1
-77.5°	100.6	65.4	43.3	28.4	17.8	11.7	8.1
-80°	73.2	52.7	37.2	25.0	16.3	11.2	8.1
-82.5°	57.1	42.7	30.9	21.5	14.8	10.7	8.1
-85°	42.3	32.5	24.4	17.9	13.3	10.1	8.1
-87.5°	27.2	22.1	17.8	14.3	11.7	9.6	8.1
-90°	8.1	8.1	8.1	8.1	8.1	8.1	8.1

(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

