

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: P731350 (CONVERTED FROM TYPE C PHOTOMETRY)

Luminaire Tested: **EPH-LS-08-0320N-40-80-7F-CV1**

Issue Date: 11/16/2023

Test Information

Test Method: LM-79-08
Report Number: P731350 (CONVERTED FROM TYPE C PHOTOMETRY)
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-240-44)
Test Lab: INNOVATION CENTER
Issue Date: 11/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-LS-08-0320N-40-80-7F-CV1
Description: EPHESUS LUMASPORT 8 INTEGRAL LUMINAIRE
(8) 4000K, 80 CRI LEDS AND 7F BEAM SHAPE WITH 1 LOUVER CUTOFF VISOR
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

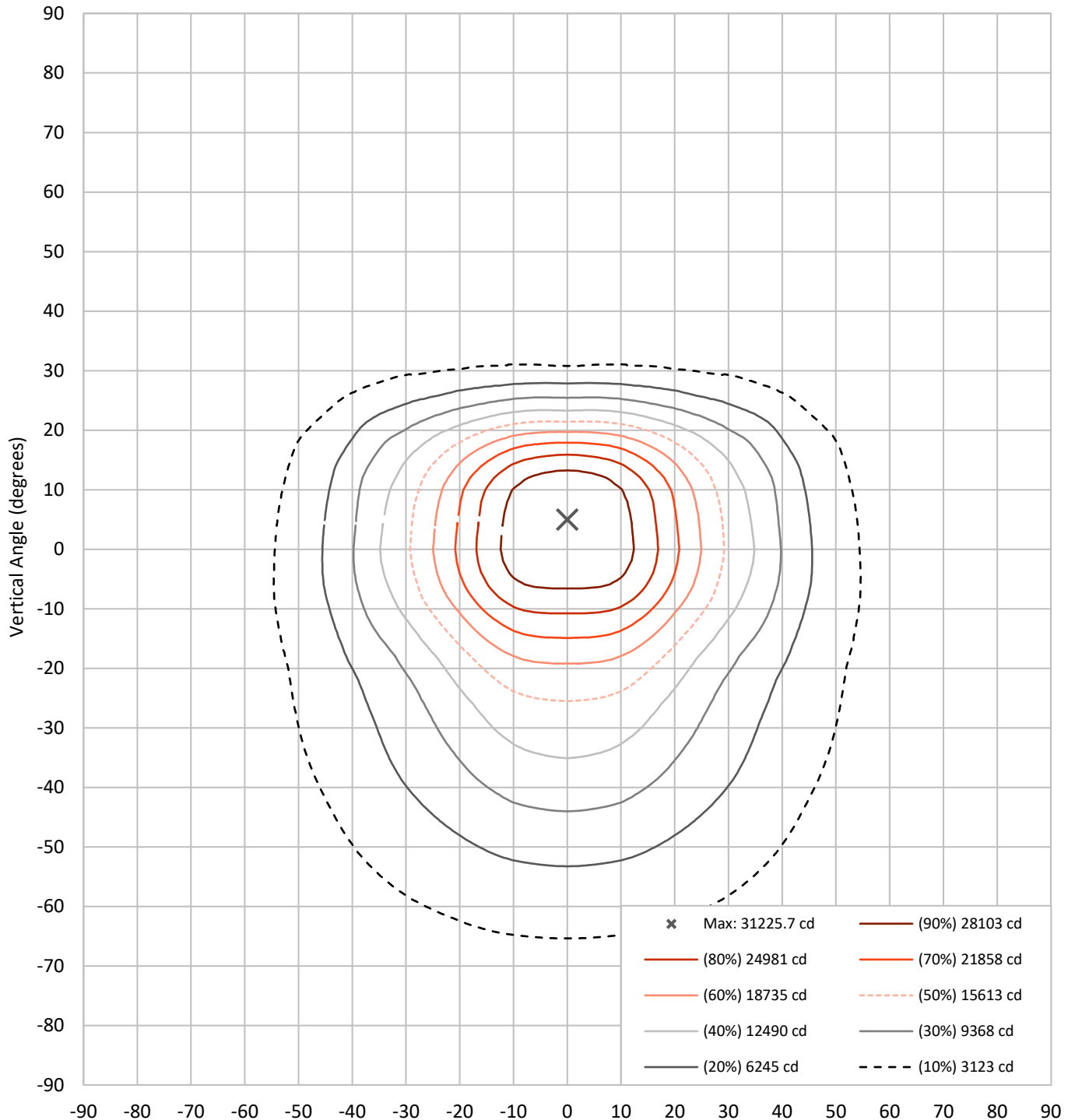
Summary

Lumens per Lamp:	N/A	NEMA Type:	6H x 5V
Luminaire Lumens:	30595.9 lumens	Max Intensity:	31225.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 5°V
Efficacy:	88.5 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	57.7°H x 46.8°V	Field Angle (10%):	107.9°H x 96.1°V
Beam Lumens:	14716 lumens	Field Lumens:	28363.4 lumens
Beam Efficiency:	48.1%	Field Efficiency:	92.7%

Input Watts (W): 345.8
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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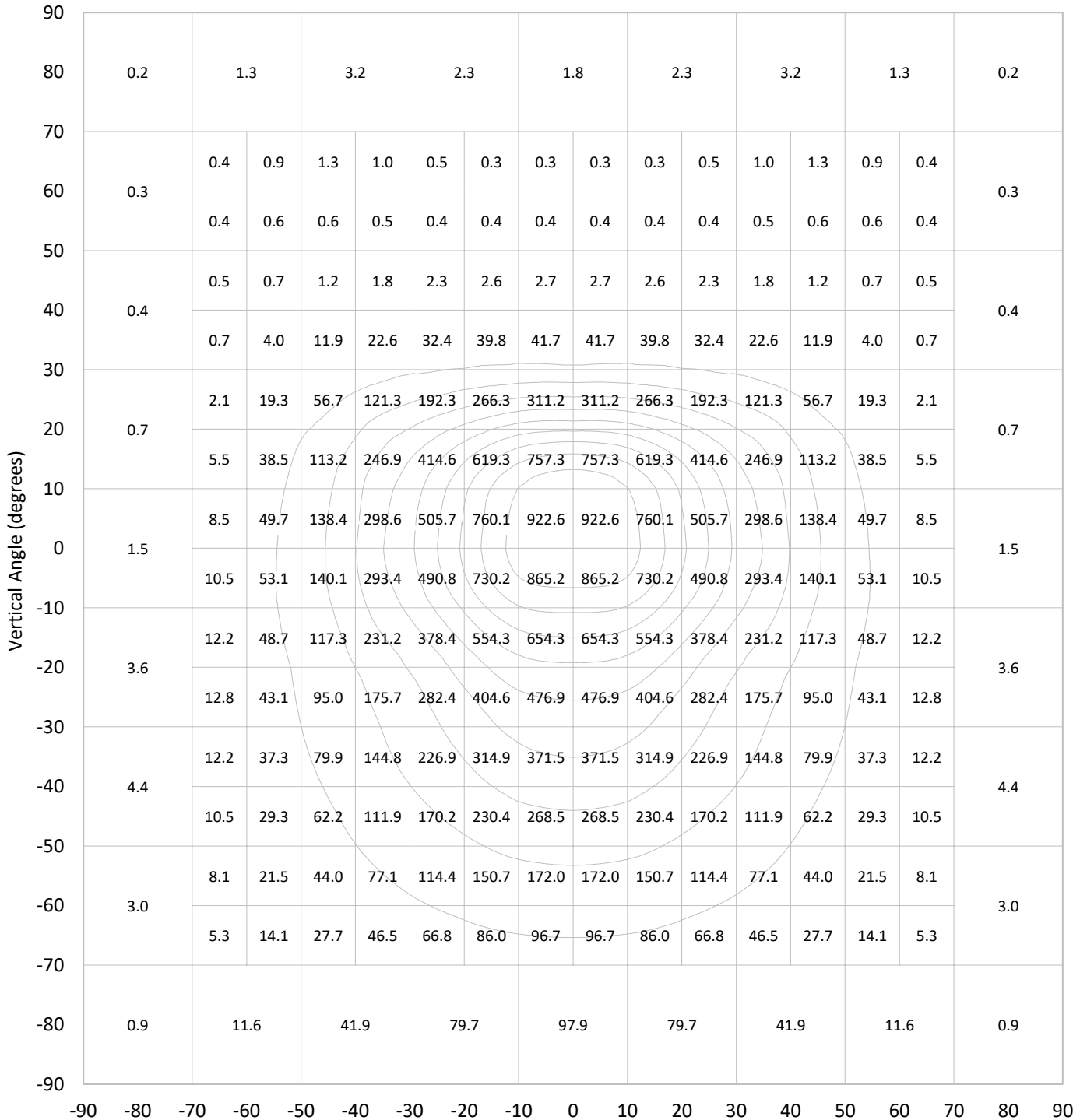
Iso-Candela Plot





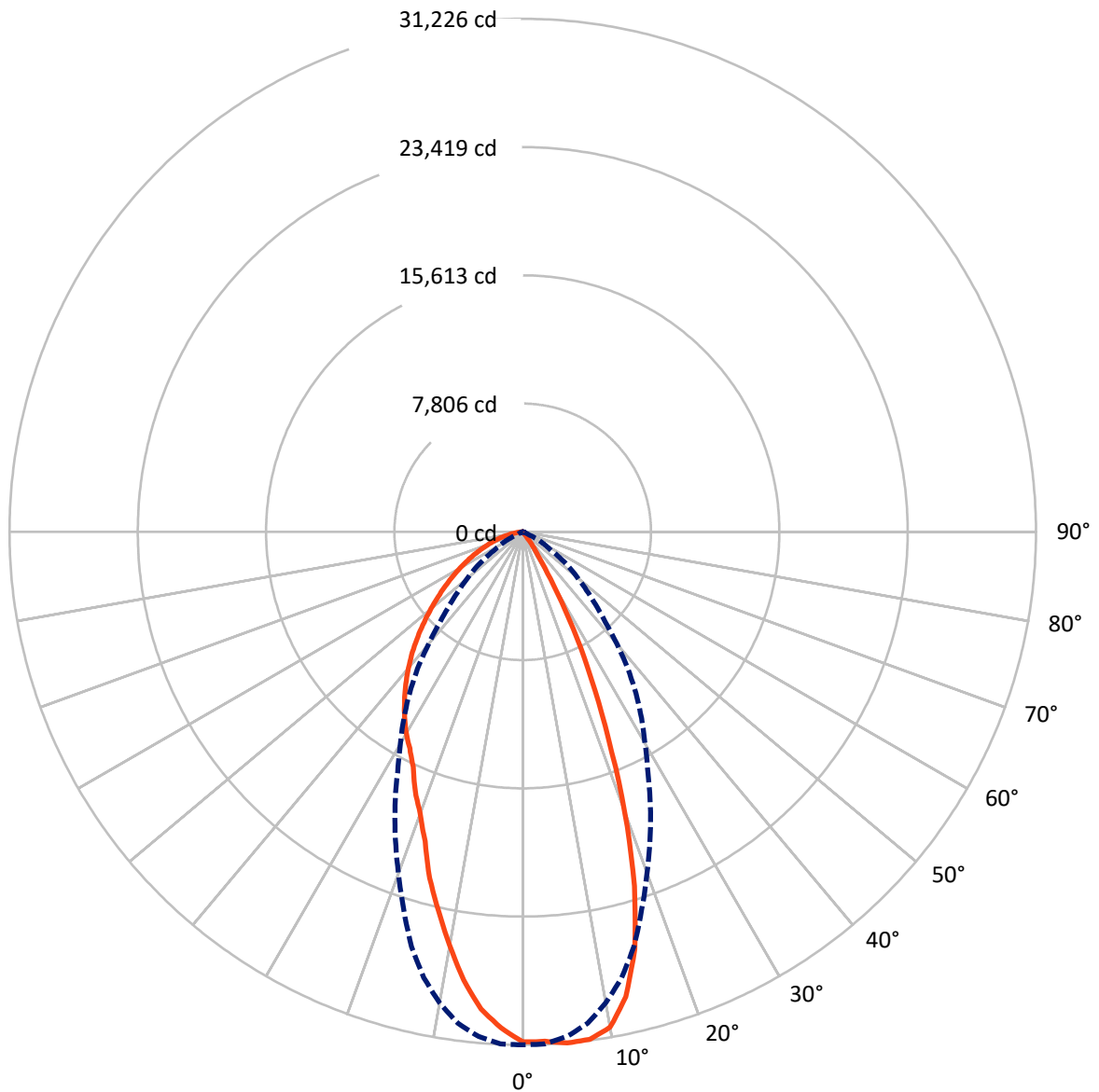
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Lumen Table



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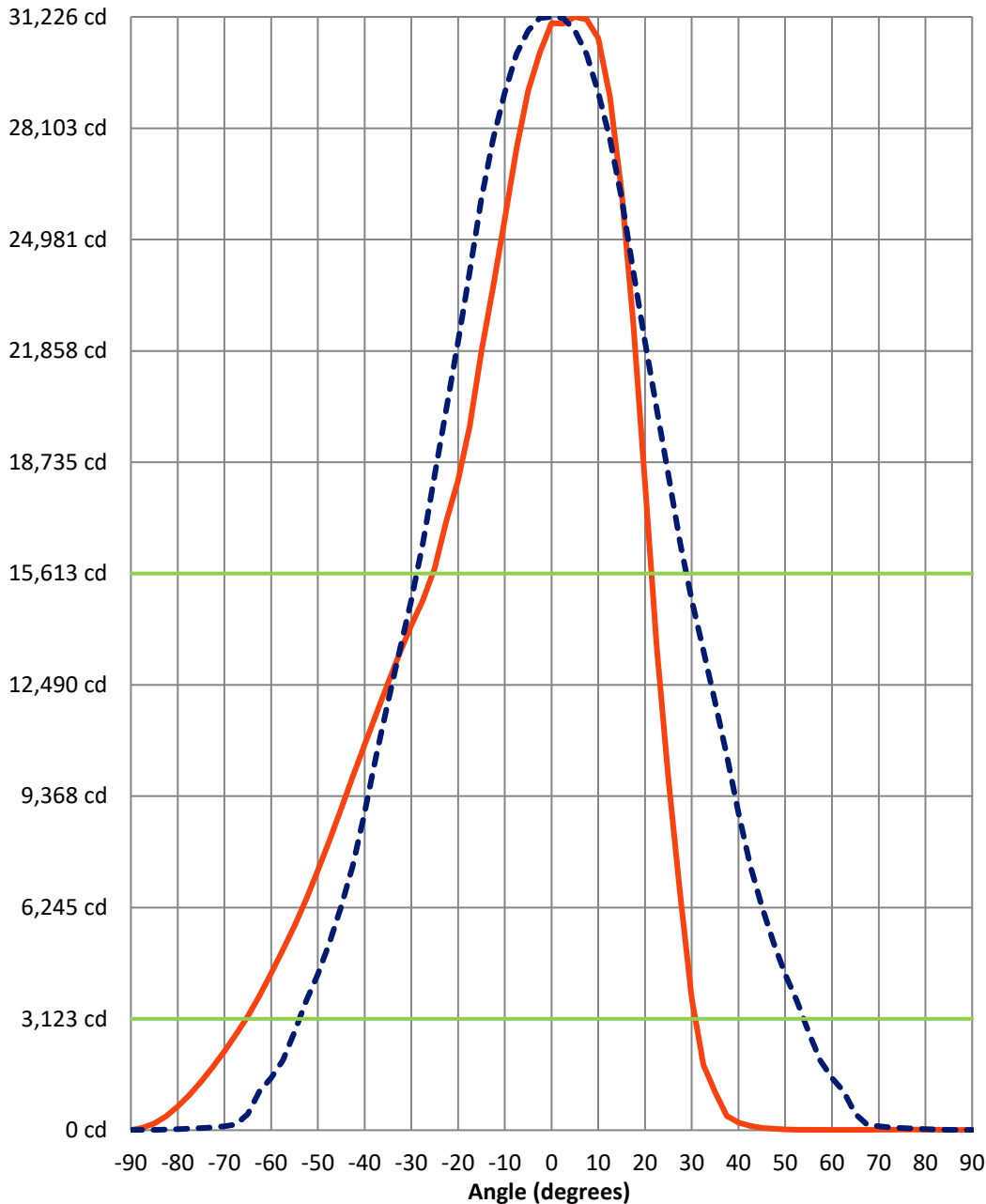
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 5-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 57.7°
 V Angle: 46.8°
 Lumens: 14716
 Efficiency: 48.1%

Field:
 H Angle: 107.9°
 V Angle: 96.1°
 Lumens: 28363.4
 Efficiency: 92.7%

Spill:
 Lumens: 2232.6
 Efficiency: 7.3%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 5-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	-90°	-87.5°	-85°	-82.5°	-80°	-77.5°	-75°	-72.5°	-70°	-67.5°	-65°
90°	4.3	4.9	5.4	5.7	5.9	6.2	6.4	6.7	7.0	7.2	7.5
87.5°	4.3	5.0	5.8	5.8	6.0	6.2	6.5	6.4	6.3	6.1	5.9
85°	4.3	5.2	6.1	6.5	7.1	7.8	8.7	8.8	8.9	8.8	8.6
82.5°	4.3	5.3	6.5	7.2	8.1	9.4	10.9	11.2	11.4	12.0	13.3
80°	4.3	5.5	6.8	7.9	9.2	10.9	12.8	13.0	14.1	16.1	18.9
77.5°	4.3	5.6	7.2	8.5	10.3	12.0	13.3	14.4	16.6	19.9	23.3
75°	4.3	5.8	7.5	9.2	11.1	12.2	13.7	15.7	18.8	21.4	24.0
72.5°	4.3	5.9	7.8	9.8	11.1	12.4	14.1	16.6	19.3	22.0	24.6
70°	4.3	6.1	8.2	10.2	11.2	12.6	14.5	17.0	19.8	22.5	25.9
67.5°	4.3	6.2	8.5	10.2	11.1	12.7	14.9	17.4	20.2	23.8	27.4
65°	4.3	6.3	8.8	10.1	11.1	13.0	15.4	17.7	21.3	25.0	28.9
62.5°	4.3	6.5	9.0	10.0	11.0	13.4	15.8	18.5	22.3	26.2	30.8
60°	4.3	6.6	9.3	9.8	11.0	13.8	16.2	19.3	23.3	27.7	32.5
57.5°	4.3	6.7	9.2	9.7	11.3	14.2	17.0	20.2	24.3	28.9	33.3
55°	4.3	6.8	9.2	9.5	11.7	14.6	17.9	21.1	25.2	30.0	33.9
52.5°	4.3	6.9	9.1	9.3	12.0	15.1	18.7	22.2	26.0	30.5	34.4
50°	4.3	7.0	9.0	9.1	12.4	15.8	19.5	23.3	26.7	31.1	34.6
47.5°	4.3	7.1	9.0	9.0	12.7	16.4	20.4	24.6	27.2	31.7	35.2
45°	4.3	7.2	8.9	9.3	13.0	17.1	21.6	26.0	28.7	32.8	36.3
42.5°	4.3	7.3	8.9	9.5	13.4	17.7	22.8	27.5	30.5	34.3	38.1
40°	4.3	7.4	8.9	9.9	13.7	18.3	24.1	29.2	32.8	36.3	40.5
37.5°	4.3	7.4	8.9	10.4	14.2	18.8	25.5	31.1	35.7	39.8	43.4
35°	4.3	7.5	8.9	10.9	14.6	19.7	26.8	33.1	38.8	44.1	47.6
32.5°	4.3	7.5	8.9	11.5	15.0	20.8	28.3	35.2	42.0	48.8	55.5
30°	4.3	7.6	9.0	12.0	15.3	21.8	30.0	37.5	45.3	54.1	64.6
27.5°	4.3	7.6	9.0	12.6	16.4	22.8	31.7	40.2	49.1	59.8	74.8
25°	4.3	7.6	9.0	13.1	17.6	23.8	33.4	42.9	53.7	67.4	87.1
22.5°	4.3	7.6	9.1	13.7	18.9	25.3	35.1	45.6	58.4	76.3	127.8
20°	4.3	7.7	9.1	14.3	20.3	28.0	36.8	48.3	63.3	85.6	173.4
17.5°	4.3	7.7	9.2	14.8	21.7	30.8	39.9	51.0	68.2	95.2	222.8
15°	4.3	7.7	9.3	15.4	23.1	33.6	43.9	55.0	73.2	104.9	274.7
12.5°	4.3	7.6	9.3	15.9	24.5	36.4	47.9	60.9	80.8	114.6	327.9
10°	4.3	7.6	9.4	16.4	25.9	39.1	51.9	66.7	90.7	129.7	378.1
7.5°	4.3	7.6	9.4	16.9	27.2	41.8	55.7	72.5	100.5	145.2	418.8
5°	4.3	7.6	9.5	17.4	28.6	44.4	59.4	78.1	110.2	160.3	454.4
2.5°	4.3	7.5	9.6	17.8	29.8	46.9	63.0	83.6	119.5	174.8	484.4
0°	4.3	7.5	9.6	18.2	31.0	49.2	66.4	88.8	128.4	188.4	508.3
-2.5°	4.3	7.6	10.3	20.4	36.0	58.8	83.0	116.7	172.0	252.0	574.7
-5°	4.3	7.8	11.1	22.6	40.9	68.2	99.3	144.0	214.3	313.5	634.5
-7.5°	4.3	7.9	11.8	24.6	45.6	77.1	114.9	170.1	254.7	372.2	687.8
-10°	4.3	8.0	12.5	26.6	50.0	85.5	129.6	194.7	292.6	427.0	734.7
-12.5°	4.3	8.1	13.1	28.4	54.1	93.3	143.4	217.3	327.3	477.1	778.4
-15°	4.3	8.2	13.7	30.0	57.7	100.3	155.9	237.8	360.1	522.4	815.8
-17.5°	4.3	8.3	14.3	31.4	61.0	106.5	167.1	259.6	391.9	562.5	844.7
-20°	4.3	8.3	14.8	32.7	63.8	111.8	179.3	281.9	419.8	596.8	864.9



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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°	4.3	8.4	15.2	33.7	66.1	116.1	193.8	301.3	443.7	625.0	876.0
-25°	4.3	8.4	15.6	34.5	67.8	122.6	206.2	317.6	463.3	646.6	877.9
-27.5°	4.3	8.5	16.0	35.0	69.0	129.3	216.3	330.6	478.4	663.6	898.7
-30°	4.3	8.5	16.2	35.3	69.8	134.4	224.0	340.1	491.2	678.8	911.8
-32.5°	4.3	8.5	16.4	35.3	72.4	138.0	229.1	348.3	500.9	687.8	915.8
-35°	4.3	8.5	16.5	35.1	74.1	140.0	232.7	353.4	505.7	690.5	910.5
-37.5°	4.3	8.5	16.5	34.5	74.9	141.0	234.5	354.8	505.5	686.8	883.5
-40°	4.3	8.4	16.4	33.6	74.7	141.5	233.8	352.4	500.3	680.5	855.1
-42.5°	4.3	8.4	16.3	32.9	74.3	140.4	230.6	346.1	492.4	657.3	821.4
-45°	4.3	8.3	16.1	32.5	73.9	137.9	225.1	337.5	480.6	628.1	783.3
-47.5°	4.3	8.2	15.8	31.7	72.6	133.8	217.0	327.6	463.5	594.9	745.4
-50°	4.3	8.1	15.4	31.4	70.6	128.1	209.1	314.4	434.8	561.7	702.8
-52.5°	4.3	8.0	14.9	31.1	67.7	121.0	199.4	297.9	406.9	524.7	656.0
-55°	4.3	7.8	14.3	30.4	64.2	115.0	187.6	278.9	377.6	484.0	608.9
-57.5°	4.3	7.7	13.7	29.4	59.8	108.3	173.7	260.4	345.6	444.5	557.7
-60°	4.3	7.5	13.0	28.0	54.9	100.6	158.5	237.2	312.1	403.1	504.7
-62.5°	4.3	7.4	12.6	26.4	51.5	91.7	145.8	211.5	280.8	358.5	452.1
-65°	4.3	7.2	12.1	24.4	47.5	81.9	131.7	186.1	247.5	317.3	396.1
-67.5°	4.3	7.0	11.5	22.2	43.0	72.8	116.2	164.2	212.5	275.4	343.9
-70°	4.3	6.8	10.9	19.7	38.1	64.5	99.6	141.2	184.1	231.5	292.2
-72.5°	4.3	6.5	10.3	18.1	32.7	55.6	85.6	117.3	154.6	195.8	240.8
-75°	4.3	6.3	9.7	16.5	27.0	46.1	71.4	96.5	124.1	159.1	197.3
-77.5°	4.3	6.1	9.0	14.9	23.3	36.1	56.5	76.4	98.4	123.1	152.4
-80°	4.3	5.9	8.3	13.1	20.0	29.0	41.0	55.8	72.5	91.5	112.6
-82.5°	4.3	5.6	7.6	11.3	16.6	23.5	31.9	38.3	46.1	59.2	73.8
-85°	4.3	5.4	6.9	9.5	13.1	17.8	23.5	27.9	32.5	37.4	42.6
-87.5°	4.3	5.1	6.1	7.6	9.5	12.0	15.0	17.3	19.7	22.4	25.1
-90°	4.3	4.9	5.4	5.1	4.9	4.6	4.3	4.0	3.8	3.5	3.2



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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°	7.5	7.5	7.5	7.5	7.8	8.1	8.3	8.6	9.1	9.7	10.2
87.5°	6.3	6.7	7.1	7.5	7.0	6.3	5.6	4.8	5.0	5.3	5.5
85°	9.3	10.1	11.1	11.8	11.3	10.8	10.5	10.3	10.8	11.3	11.7
82.5°	14.6	15.5	16.0	16.2	16.5	17.0	17.9	19.8	21.0	21.8	22.3
80°	20.4	21.0	21.4	22.8	25.4	28.4	31.7	35.4	36.6	36.7	36.3
77.5°	23.9	25.2	27.7	31.4	35.6	39.9	44.5	49.6	51.1	50.6	49.6
75°	26.0	29.0	33.4	38.8	44.4	50.1	56.2	61.9	63.5	61.7	59.3
72.5°	28.0	32.6	38.5	45.5	51.6	57.5	64.0	71.2	73.7	70.0	65.7
70°	30.0	35.9	42.6	49.5	56.4	63.1	69.5	76.3	80.4	74.8	66.1
67.5°	31.7	38.5	45.6	52.7	59.0	65.6	72.8	75.7	77.5	68.3	58.5
65°	33.7	40.9	47.4	53.7	60.4	63.1	65.5	67.9	67.6	57.1	46.6
62.5°	35.7	41.6	47.8	52.8	54.4	56.0	56.0	54.4	51.8	44.6	35.6
60°	36.4	41.5	45.8	47.5	47.9	46.3	44.3	42.3	39.1	33.1	26.9
57.5°	36.8	39.5	41.5	42.0	40.2	37.2	35.8	32.6	29.9	26.3	21.3
55°	36.6	36.2	37.4	36.4	34.3	31.8	29.2	27.2	23.8	22.8	20.5
52.5°	35.6	34.0	33.5	32.4	30.9	28.4	25.9	24.2	23.4	22.1	20.2
50°	35.3	33.2	30.7	30.6	29.4	27.5	24.9	24.6	24.6	23.4	21.2
47.5°	35.8	33.3	30.0	30.1	30.2	30.9	28.7	27.7	28.1	31.2	27.8
45°	37.0	35.6	32.2	32.1	35.1	39.1	42.7	32.9	42.7	47.7	51.6
42.5°	38.9	39.5	41.3	35.1	46.5	60.8	67.7	71.1	67.4	83.1	99.2
40°	43.2	44.7	56.6	61.3	66.2	95.8	136.8	146.4	111.3	154.7	181.6
37.5°	48.5	63.6	84.4	109.5	107.3	169.1	233.3	282.6	277.8	262.6	376.1
35°	54.6	86.9	142.9	199.0	223.5	282.1	400.6	486.5	537.6	568.4	661.9
32.5°	71.4	114.5	216.1	335.1	437.5	495.6	607.5	795.8	973.9	1080.2	1079.1
30°	100.9	182.4	319.5	502.2	701.3	864.6	957.2	1199.1	1538.5	1779.9	1940.8
27.5°	144.5	264.9	478.8	743.6	1022.5	1299.7	1484.5	1798.8	2255.6	2623.5	2967.2
25°	197.8	396.1	658.4	1030.6	1440.7	1792.9	2058.7	2495.6	3074.4	3651.5	4226.4
22.5°	282.6	548.4	857.6	1344.4	1902.4	2302.6	2693.0	3225.5	3894.9	4705.1	5581.8
20°	400.9	725.6	1070.3	1590.7	2364.0	2821.5	3300.7	3936.3	4717.1	5701.8	6872.3
17.5°	528.7	892.9	1278.9	1859.0	2613.6	3247.5	3891.0	4615.3	5490.3	6632.6	7893.5
15°	663.1	1050.3	1465.3	2098.7	2847.2	3532.0	4293.5	5235.5	6267.3	7502.7	8821.6
12.5°	800.9	1197.6	1630.4	2309.7	3070.2	3789.8	4601.9	5581.7	6782.0	8231.1	9615.7
10°	938.7	1334.9	1775.5	2492.6	3279.3	4020.3	4866.8	5869.3	7090.5	8542.3	10038.9
7.5°	1023.2	1425.5	1894.1	2647.9	3471.2	4223.1	5089.2	6100.3	7304.1	8764.7	10307.1
5°	1087.1	1466.2	1955.8	2753.7	3622.9	4373.3	5262.7	6277.3	7432.8	8900.3	10510.9
2.5°	1136.8	1496.1	2005.1	2832.4	3737.5	4454.9	5365.9	6390.6	7566.8	9068.8	10716.7
0°	1171.8	1516.4	2040.8	2886.3	3823.8	4507.6	5433.3	6458.5	7660.3	9215.3	10899.8
-2.5°	1205.9	1579.1	2113.5	2955.1	3836.2	4515.5	5458.9	6461.3	7660.3	9186.9	10823.9
-5°	1227.3	1631.3	2170.9	2998.4	3823.5	4499.3	5444.8	6422.5	7576.9	9020.4	10542.6
-7.5°	1238.4	1671.2	2212.4	3005.0	3757.4	4404.4	5274.6	6193.7	7301.3	8653.9	10057.5
-10°	1244.3	1695.3	2207.9	2914.5	3620.3	4251.8	5047.4	5927.9	6971.3	8229.1	9527.7
-12.5°	1260.7	1708.3	2188.0	2815.8	3471.3	4079.3	4795.3	5629.2	6588.4	7754.0	8945.5
-15°	1269.5	1714.9	2160.2	2713.8	3314.7	3888.2	4522.5	5300.5	6173.7	7216.3	8273.5
-17.5°	1272.0	1716.1	2126.3	2613.5	3154.3	3679.9	4254.1	5018.8	5813.8	6714.2	7615.8
-20°	1269.2	1712.9	2087.9	2519.0	2996.7	3528.6	4108.3	4775.4	5487.1	6248.4	6999.6



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	-62.5°	-60°	-57.5°	-55°	-52.5°	-50°	-47.5°	-45°	-42.5°	-40°	-37.5°
-22.5°	1262.2	1706.2	2055.6	2452.0	2921.0	3429.5	3962.7	4539.9	5152.4	5813.5	6575.2
-25°	1258.7	1681.7	2033.9	2404.6	2847.7	3325.2	3809.7	4322.5	4856.4	5548.8	6275.3
-27.5°	1253.2	1655.8	1991.4	2338.7	2762.9	3219.9	3674.3	4142.3	4690.5	5312.5	5986.7
-30°	1236.6	1593.3	1933.6	2261.7	2673.2	3113.5	3547.4	3992.3	4511.0	5097.4	5722.9
-32.5°	1190.1	1522.3	1856.8	2186.4	2565.2	2996.8	3416.4	3847.8	4329.0	4854.4	5456.2
-35°	1138.0	1449.0	1770.8	2093.0	2439.1	2855.4	3263.6	3680.6	4127.2	4620.2	5181.2
-37.5°	1100.1	1370.2	1678.6	1987.8	2320.0	2689.8	3090.1	3491.5	3914.4	4384.2	4914.8
-40°	1055.0	1286.4	1585.0	1881.0	2183.4	2524.4	2898.3	3283.6	3680.5	4149.0	4635.3
-42.5°	1004.5	1228.0	1488.1	1767.7	2052.9	2362.8	2696.6	3063.1	3461.4	3897.2	4353.8
-45°	960.9	1162.3	1391.1	1652.8	1917.7	2198.5	2508.0	2835.7	3229.1	3634.6	4058.6
-47.5°	911.4	1093.8	1308.9	1531.3	1780.8	2039.7	2313.4	2632.6	2982.2	3361.9	3750.8
-50°	857.8	1031.6	1215.1	1421.9	1643.1	1880.0	2129.9	2421.2	2740.2	3079.5	3437.4
-52.5°	803.9	963.1	1131.9	1312.0	1512.9	1725.8	1957.3	2216.7	2499.0	2796.3	3112.1
-55°	744.8	893.5	1047.1	1210.4	1385.6	1578.9	1785.8	2017.7	2260.4	2529.9	2795.5
-57.5°	684.1	818.6	960.3	1111.5	1269.0	1433.2	1620.8	1817.3	2036.6	2266.9	2501.3
-60°	620.7	741.2	869.6	1008.6	1154.9	1302.9	1454.9	1628.9	1815.1	2006.5	2216.0
-62.5°	554.2	662.4	777.2	900.5	1034.4	1168.3	1304.6	1448.5	1599.4	1771.3	1946.1
-65°	488.3	581.5	683.7	793.4	908.1	1028.4	1150.5	1273.8	1405.8	1547.4	1694.6
-67.5°	418.8	503.0	590.9	684.0	785.8	888.0	994.6	1106.1	1218.2	1333.0	1453.8
-70°	356.3	423.0	499.7	580.9	663.1	746.8	838.9	934.6	1032.4	1130.0	1230.4
-72.5°	293.2	350.6	411.9	476.8	545.8	614.7	686.6	761.3	840.6	922.8	1006.3
-75°	235.9	276.6	326.8	380.9	433.7	485.6	539.5	600.2	663.0	726.4	789.6
-77.5°	183.0	215.4	250.3	287.6	324.3	366.0	408.6	452.2	497.7	544.4	591.7
-80°	132.5	153.0	178.8	206.6	233.2	260.1	287.9	316.2	345.9	378.6	413.9
-82.5°	87.8	102.4	117.7	133.7	148.6	163.3	179.0	198.3	217.8	237.8	258.2
-85°	46.9	51.3	60.3	69.9	79.3	88.8	98.2	107.7	117.4	126.8	135.9
-87.5°	27.2	29.4	31.6	33.9	36.3	38.6	41.0	43.4	46.6	49.8	53.1
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2



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CANDELA DISTRIBUTION (continued):

	-35°	-32.5°	-30°	-27.5°	-25°	-22.5°	-20°	-17.5°	-15°	-12.5°	-10°
90°	10.7	11.0	11.3	11.5	11.8	12.1	12.3	12.6	12.8	13.1	13.4
87.5°	5.8	5.4	5.0	4.6	4.1	5.3	6.6	8.0	9.3	8.6	7.9
85°	11.9	12.0	12.0	12.1	12.1	13.5	14.9	16.3	17.6	16.3	14.8
82.5°	22.4	22.0	21.3	20.1	18.6	18.3	17.9	17.2	16.4	15.7	15.0
80°	35.5	33.7	31.4	28.6	25.5	23.9	22.5	20.8	19.0	18.5	18.0
77.5°	47.7	44.4	40.5	36.2	31.7	28.9	26.3	23.5	20.5	19.7	19.2
75°	56.4	52.1	46.5	40.5	34.2	29.7	26.2	22.7	19.3	18.4	18.3
72.5°	60.9	55.1	47.9	39.4	31.4	26.0	22.8	19.8	17.2	16.3	15.9
70°	57.2	48.4	40.1	32.3	25.2	20.4	18.1	16.0	14.2	13.7	14.0
67.5°	48.3	39.4	31.9	25.2	19.5	15.6	14.2	13.2	12.4	12.1	12.1
65°	37.7	30.2	24.1	19.1	14.9	12.6	12.1	11.7	11.3	10.9	10.5
62.5°	27.9	22.2	18.3	15.4	13.2	11.8	11.4	10.9	10.4	9.8	9.4
60°	21.7	17.3	15.3	14.0	12.9	12.0	11.6	11.3	11.2	11.0	10.7
57.5°	18.9	16.6	14.8	14.1	13.5	13.0	12.8	12.5	12.2	11.8	11.4
55°	18.4	16.7	15.1	14.7	14.4	14.1	13.7	13.4	12.9	12.5	12.3
52.5°	18.4	17.7	16.5	16.0	16.2	15.8	14.9	15.3	15.4	15.0	14.8
50°	20.8	21.0	21.3	19.5	21.3	22.1	21.1	21.9	23.3	23.5	23.3
47.5°	29.5	31.5	34.0	32.1	34.4	38.0	37.7	38.0	41.1	41.5	41.4
45°	47.1	55.6	59.7	62.0	61.1	69.4	71.0	68.3	72.7	73.5	72.3
42.5°	94.4	99.1	109.7	118.1	113.3	121.9	124.4	116.7	124.2	127.6	124.0
40°	211.3	168.0	199.5	221.2	213.7	197.1	225.9	215.5	214.5	226.5	217.1
37.5°	417.2	370.3	402.6	464.6	462.4	384.3	471.4	465.8	391.5	479.5	471.8
35°	748.2	834.9	796.2	912.3	945.9	963.4	1011.7	1061.6	1006.9	1079.0	1077.1
32.5°	1339.7	1519.5	1599.0	1613.2	1762.1	1883.4	1832.0	2026.6	2014.7	2063.4	2113.1
30°	2115.0	2515.8	2718.7	2723.7	2970.8	3188.2	3257.1	3501.4	3645.8	3621.9	3863.8
27.5°	3374.5	3768.3	4102.4	4387.4	4579.9	4922.7	5399.8	5640.6	5995.6	6134.8	6469.2
25°	4797.7	5286.9	5814.2	6310.3	6717.7	7331.8	7925.6	8300.1	8807.9	9205.9	9610.3
22.5°	6339.4	6988.3	7665.0	8407.1	9164.7	9913.9	10635.2	11327.1	12004.1	12752.0	13209.1
20°	7915.5	8649.1	9472.7	10478.5	11529.6	12433.1	13418.3	14503.0	15540.1	16505.4	17234.5
17.5°	9113.3	10248.5	11140.8	12228.8	13534.2	14806.8	16062.9	17493.4	18812.8	20043.5	21141.1
15°	10028.0	11218.0	12511.2	13824.5	15199.7	16715.0	18442.7	20008.1	21637.9	23085.4	24440.9
12.5°	10825.3	12033.4	13386.8	14918.5	16652.9	18279.9	20090.6	22048.2	23777.4	25477.8	26749.7
10°	11413.7	12755.7	14127.9	15667.8	17436.5	19336.0	21298.4	23277.2	25216.1	26857.6	28224.0
7.5°	11738.3	13163.6	14599.2	16207.3	18025.8	19894.1	21854.4	23920.5	25872.1	27562.5	28817.4
5°	12002.5	13451.5	14870.6	16485.1	18379.8	20235.7	22113.6	24085.5	26129.0	27796.3	29101.9
2.5°	12233.2	13646.8	15031.1	16603.0	18555.7	20419.8	22350.7	24394.7	26370.8	27979.3	29250.1
0°	12433.4	13767.9	15121.6	16679.8	18721.7	20608.5	22508.0	24508.2	26521.2	28087.9	29374.3
-2.5°	12288.5	13597.0	14930.9	16523.7	18471.0	20326.9	22237.3	24262.7	26169.5	27756.4	29003.5
-5°	11910.9	13171.4	14495.9	16084.8	17943.6	19761.5	21646.4	23597.4	25389.7	26976.3	28123.5
-7.5°	11358.9	12592.8	13912.2	15476.2	17205.9	18855.8	20540.3	22348.8	24132.8	25533.6	26626.3
-10°	10745.2	11919.6	13134.0	14509.5	16041.1	17582.2	19130.0	20811.2	22383.1	23698.4	24750.3
-12.5°	10016.6	11059.8	12178.0	13377.7	14783.8	16251.6	17727.6	19200.2	20650.0	21833.2	22786.0
-15°	9229.7	10152.2	11173.4	12333.9	13586.7	14881.9	16213.4	17619.6	18925.3	20027.4	20867.5
-17.5°	8453.4	9279.5	10317.4	11372.5	12384.9	13572.6	14896.8	16059.7	17251.2	18240.9	18983.1
-20°	7795.3	8684.0	9586.6	10488.0	11455.2	12609.9	13732.6	14829.0	15887.8	16789.0	17526.9



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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°	7366.3	8147.1	8917.3	9769.9	10753.1	11772.1	12788.3	13785.1	14743.4	15599.4	16301.3
-25°	6976.1	7636.9	8399.6	9265.3	10095.5	10989.3	11948.8	12781.9	13691.0	14466.2	15066.7
-27.5°	6635.1	7289.0	8037.4	8816.1	9567.0	10372.6	11246.5	12041.7	12859.7	13605.2	14129.1
-30°	6338.2	7015.6	7719.4	8431.7	9138.9	9884.3	10643.8	11412.4	12162.9	12838.8	13342.4
-32.5°	6085.1	6720.6	7380.6	8043.6	8688.3	9367.3	10071.9	10778.5	11473.8	12065.2	12558.3
-35°	5797.4	6405.8	7019.1	7614.4	8211.6	8818.9	9472.9	10134.3	10756.4	11296.4	11777.8
-37.5°	5476.4	6062.5	6622.2	7164.1	7717.8	8279.3	8885.0	9492.7	10064.2	10552.9	11011.9
-40°	5156.8	5691.0	6197.9	6703.7	7211.2	7737.1	8284.9	8829.1	9330.7	9792.9	10220.6
-42.5°	4824.8	5292.3	5753.8	6224.7	6692.8	7167.0	7656.4	8151.3	8598.3	9019.9	9399.0
-45°	4489.8	4891.1	5298.7	5730.1	6157.6	6583.3	7006.9	7424.7	7843.2	8236.0	8556.3
-47.5°	4133.6	4495.7	4865.8	5236.7	5619.7	6008.4	6378.7	6740.3	7110.0	7461.1	7725.6
-50°	3774.1	4109.4	4443.9	4770.6	5109.3	5451.1	5788.5	6106.8	6416.5	6715.1	6921.9
-52.5°	3412.1	3722.1	4028.6	4324.1	4618.0	4909.3	5195.2	5477.6	5748.9	6004.8	6168.8
-55°	3068.2	3344.7	3614.2	3872.3	4131.7	4387.5	4639.7	4886.7	5120.9	5340.9	5467.4
-57.5°	2744.8	2985.6	3221.7	3443.9	3660.9	3871.8	4094.7	4319.1	4530.0	4719.1	4821.0
-60°	2429.7	2646.6	2849.2	3034.9	3221.1	3406.3	3594.1	3779.4	3959.9	4116.9	4204.7
-62.5°	2119.8	2305.1	2477.5	2637.4	2791.1	2944.1	3106.9	3263.3	3412.0	3533.2	3607.6
-65°	1848.3	2005.3	2134.4	2261.7	2388.0	2522.5	2657.7	2786.8	2908.9	3003.9	3066.5
-67.5°	1584.3	1713.5	1820.9	1926.5	2032.3	2139.2	2248.1	2353.7	2455.0	2531.8	2586.2
-70°	1333.3	1430.9	1515.1	1601.1	1688.7	1776.1	1863.6	1947.9	2028.3	2086.8	2130.6
-72.5°	1090.5	1166.0	1231.5	1298.2	1364.1	1431.8	1499.6	1564.8	1626.8	1668.7	1699.4
-75°	852.3	907.1	959.6	1010.5	1059.6	1110.0	1159.9	1207.6	1252.7	1284.4	1309.7
-77.5°	641.7	680.6	714.8	748.4	781.1	816.1	850.3	882.6	912.8	934.8	953.4
-80°	449.5	474.6	496.5	517.1	536.3	558.0	579.2	599.3	618.1	630.9	641.2
-82.5°	279.0	293.7	306.9	319.0	330.0	341.3	351.9	361.4	370.0	380.0	389.4
-85°	144.7	150.8	156.4	161.5	166.3	170.9	175.1	178.9	182.2	184.0	185.3
-87.5°	56.3	57.7	59.0	60.2	61.3	62.7	64.1	65.4	66.6	67.7	68.7
-90°	3.2	2.9	2.7	2.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
90°	13.6	13.9	13.9	13.9	13.9	13.9	13.6	13.4	13.1	12.8	12.6
87.5°	7.2	6.4	5.9	5.4	5.9	6.4	7.2	7.9	8.6	9.3	8.0
85°	13.3	11.8	10.7	9.6	10.7	11.8	13.3	14.8	16.3	17.6	16.3
82.5°	14.4	13.9	13.9	13.9	13.9	13.9	14.4	15.0	15.7	16.4	17.2
80°	17.6	17.1	17.6	18.2	17.6	17.1	17.6	18.0	18.5	19.0	20.8
77.5°	18.7	18.2	18.2	18.2	18.2	18.2	18.7	19.2	19.7	20.5	23.5
75°	18.2	18.2	17.7	17.1	17.7	18.2	18.2	18.3	18.4	19.3	22.7
72.5°	15.5	15.1	15.0	15.0	15.0	15.1	15.5	15.9	16.3	17.2	19.8
70°	14.4	14.9	14.5	13.9	14.5	14.9	14.4	14.0	13.7	14.2	16.0
67.5°	12.0	11.9	11.8	11.8	11.8	11.9	12.0	12.1	12.1	12.4	13.2
65°	10.1	9.7	9.6	9.6	9.6	9.7	10.1	10.5	10.9	11.3	11.7
62.5°	9.0	8.7	8.6	8.6	8.6	8.7	9.0	9.4	9.8	10.4	10.9
60°	10.2	9.7	9.2	8.6	9.2	9.7	10.2	10.7	11.0	11.2	11.3
57.5°	11.0	10.7	10.7	10.7	10.7	10.7	11.0	11.4	11.8	12.2	12.5
55°	12.1	11.8	11.8	11.8	11.8	11.8	12.1	12.3	12.5	12.9	13.4
52.5°	14.5	14.0	13.5	12.8	13.5	14.0	14.5	14.8	15.0	15.4	15.3
50°	22.9	21.8	21.3	21.4	21.3	21.8	22.9	23.3	23.5	23.3	21.9
47.5°	42.2	42.2	42.0	41.7	42.0	42.2	42.2	41.4	41.5	41.1	38.0
45°	71.9	69.0	66.3	65.3	66.3	69.0	71.9	72.3	73.5	72.7	68.3
42.5°	126.4	125.7	123.5	120.9	123.5	125.7	126.4	124.0	127.6	124.2	116.7
40°	219.6	216.6	211.5	213.0	211.5	216.6	219.6	217.1	226.5	214.5	215.5
37.5°	457.4	435.4	402.1	402.4	402.1	435.4	457.4	471.8	479.5	391.5	465.8
35°	1070.6	1088.5	1067.2	1067.0	1067.2	1088.5	1070.6	1077.1	1079.0	1006.9	1061.6
32.5°	2048.7	2018.9	1898.2	1835.4	1898.2	2018.9	2048.7	2113.1	2063.4	2014.7	2026.6
30°	3859.5	3878.6	3697.7	3701.8	3697.7	3878.6	3859.5	3863.8	3621.9	3645.8	3501.4
27.5°	6604.1	6751.1	6712.4	6648.0	6712.4	6751.1	6604.1	6469.2	6134.8	5995.6	5640.6
25°	9875.5	9986.2	9912.1	9867.1	9912.1	9986.2	9875.5	9610.3	9205.9	8807.9	8300.1
22.5°	13653.1	13807.1	13768.4	13573.1	13768.4	13807.1	13653.1	13209.1	12752.0	12004.1	11327.1
20°	17834.9	18098.9	18252.2	18153.5	18252.2	18098.9	17834.9	17234.5	16505.4	15540.1	14503.0
17.5°	21920.5	22260.9	22521.9	22609.7	22521.9	22260.9	21920.5	21141.1	20043.5	18812.8	17493.4
15°	25356.0	25842.8	26185.6	26307.2	26185.6	25842.8	25356.0	24440.9	23085.4	21637.9	20008.1
12.5°	27821.5	28455.0	28857.1	28977.8	28857.1	28455.0	27821.5	26749.7	25477.8	23777.4	22048.2
10°	29177.3	29975.8	30433.5	30624.3	30433.5	29975.8	29177.3	28224.0	26857.6	25216.1	23277.2
7.5°	29934.8	30656.0	31088.4	31152.4	31088.4	30656.0	29934.8	28817.4	27562.5	25872.1	23920.5
5°	30180.5	30835.8	31192.7	31225.7	31192.7	30835.8	30180.5	29101.9	27796.3	26129.0	24085.5
2.5°	30288.3	30842.0	31105.2	31037.9	31105.2	30842.0	30288.3	29250.1	27979.3	26370.8	24394.7
0°	30233.2	30728.1	31007.4	31049.1	31007.4	30728.1	30233.2	29374.3	28087.9	26521.2	24508.2
-2.5°	29784.2	30152.8	30350.8	30223.5	30350.8	30152.8	29784.2	29003.5	27756.4	26169.5	24262.7
-5°	28760.5	29025.7	29108.5	29154.9	29108.5	29025.7	28760.5	28123.5	26976.3	25389.7	23597.4
-7.5°	27281.0	27497.5	27579.1	27521.8	27579.1	27497.5	27281.0	26626.3	25533.6	24132.8	22348.8
-10°	25331.0	25529.3	25598.6	25559.1	25598.6	25529.3	25331.0	24750.3	23698.4	22383.1	20811.2
-12.5°	23357.0	23592.1	23646.0	23649.3	23646.0	23592.1	23357.0	22786.0	21833.2	20650.0	19200.2
-15°	21416.5	21685.2	21767.4	21839.2	21767.4	21685.2	21416.5	20867.5	20027.4	18925.3	17619.6
-17.5°	19509.8	19776.7	19846.0	19752.3	19846.0	19776.7	19509.8	18983.1	18240.9	17251.2	16059.7
-20°	17942.5	18080.9	18228.5	18227.3	18228.5	18080.9	17942.5	17526.9	16789.0	15887.8	14829.0



REPORT NUMBER: P731350 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	-7.5°	-5°	-2.5°	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°
-22.5°	16648.0	16876.8	17002.5	17091.8	17002.5	16876.8	16648.0	16301.3	15599.4	14743.4	13785.1
-25°	15433.9	15628.2	15706.3	15765.9	15706.3	15628.2	15433.9	15066.7	14466.2	13691.0	12781.9
-27.5°	14498.7	14695.8	14807.3	14873.4	14807.3	14695.8	14498.7	14129.1	13605.2	12859.7	12041.7
-30°	13752.8	13946.5	14079.4	14162.8	14079.4	13946.5	13752.8	13342.4	12838.8	12162.9	11412.4
-32.5°	12949.1	13151.7	13290.1	13376.2	13290.1	13151.7	12949.1	12558.3	12065.2	11473.8	10778.5
-35°	12113.9	12316.5	12466.0	12536.1	12466.0	12316.5	12113.9	11777.8	11296.4	10756.4	10134.3
-37.5°	11302.6	11491.7	11623.8	11675.7	11623.8	11491.7	11302.6	11011.9	10552.9	10064.2	9492.7
-40°	10456.7	10635.2	10757.9	10805.6	10757.9	10635.2	10456.7	10220.6	9792.9	9330.7	8829.1
-42.5°	9603.9	9770.4	9883.7	9931.3	9883.7	9770.4	9603.9	9399.0	9019.9	8598.3	8151.3
-45°	8739.9	8888.0	8983.9	9020.5	8983.9	8888.0	8739.9	8556.3	8236.0	7843.2	7424.7
-47.5°	7889.6	8023.2	8105.6	8132.3	8105.6	8023.2	7889.6	7725.6	7461.1	7110.0	6740.3
-50°	7059.5	7168.9	7244.3	7286.9	7244.3	7168.9	7059.5	6921.9	6715.1	6416.5	6106.8
-52.5°	6291.7	6391.1	6450.3	6473.5	6450.3	6391.1	6291.7	6168.8	6004.8	5748.9	5477.6
-55°	5572.1	5658.1	5708.4	5728.7	5708.4	5658.1	5572.1	5467.4	5340.9	5120.9	4886.7
-57.5°	4907.6	4978.1	5025.5	5052.3	5025.5	4978.1	4907.6	4821.0	4719.1	4530.0	4319.1
-60°	4277.6	4335.3	4375.1	4398.4	4375.1	4335.3	4277.6	4204.7	4116.9	3959.9	3779.4
-62.5°	3669.4	3718.4	3750.7	3769.2	3750.7	3718.4	3669.4	3607.6	3533.2	3412.0	3263.3
-65°	3119.4	3162.4	3183.3	3191.3	3183.3	3162.4	3119.4	3066.5	3003.9	2908.9	2786.8
-67.5°	2633.0	2671.7	2685.7	2688.3	2685.7	2671.7	2633.0	2586.2	2531.8	2455.0	2353.7
-70°	2168.5	2200.1	2210.7	2212.1	2210.7	2200.1	2168.5	2130.6	2086.8	2028.3	1947.9
-72.5°	1724.8	1744.7	1760.0	1770.1	1760.0	1744.7	1724.8	1699.4	1668.7	1626.8	1564.8
-75°	1330.9	1348.0	1355.4	1358.1	1355.4	1348.0	1330.9	1309.7	1284.4	1252.7	1207.6
-77.5°	969.2	982.2	985.2	984.6	985.2	982.2	969.2	953.4	934.8	912.8	882.6
-80°	649.3	655.3	659.3	661.4	659.3	655.3	649.3	641.2	630.9	618.1	599.3
-82.5°	397.8	405.1	397.6	388.5	397.6	405.1	397.8	389.4	380.0	370.0	361.4
-85°	186.1	186.4	187.1	187.3	187.1	186.4	186.1	185.3	184.0	182.2	178.9
-87.5°	69.6	70.4	70.0	69.6	70.0	70.4	69.6	68.7	67.7	66.6	65.4
-90°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1



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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
90°	12.3	12.1	11.8	11.5	11.3	11.0	10.7	10.2	9.7	9.1	8.6
87.5°	6.6	5.3	4.1	4.6	5.0	5.4	5.8	5.5	5.3	5.0	4.8
85°	14.9	13.5	12.1	12.1	12.0	12.0	11.9	11.7	11.3	10.8	10.3
82.5°	17.9	18.3	18.6	20.1	21.3	22.0	22.4	22.3	21.8	21.0	19.8
80°	22.5	23.9	25.5	28.6	31.4	33.7	35.5	36.3	36.7	36.6	35.4
77.5°	26.3	28.9	31.7	36.2	40.5	44.4	47.7	49.6	50.6	51.1	49.6
75°	26.2	29.7	34.2	40.5	46.5	52.1	56.4	59.3	61.7	63.5	61.9
72.5°	22.8	26.0	31.4	39.4	47.9	55.1	60.9	65.7	70.0	73.7	71.2
70°	18.1	20.4	25.2	32.3	40.1	48.4	57.2	66.1	74.8	80.4	76.3
67.5°	14.2	15.6	19.5	25.2	31.9	39.4	48.3	58.5	68.3	77.5	75.7
65°	12.1	12.6	14.9	19.1	24.1	30.2	37.7	46.6	57.1	67.6	67.9
62.5°	11.4	11.8	13.2	15.4	18.3	22.2	27.9	35.6	44.6	51.8	54.4
60°	11.6	12.0	12.9	14.0	15.3	17.3	21.7	26.9	33.1	39.1	42.3
57.5°	12.8	13.0	13.5	14.1	14.8	16.6	18.9	21.3	26.3	29.9	32.6
55°	13.7	14.1	14.4	14.7	15.1	16.7	18.4	20.5	22.8	23.8	27.2
52.5°	14.9	15.8	16.2	16.0	16.5	17.7	18.4	20.2	22.1	23.4	24.2
50°	21.1	22.1	21.3	19.5	21.3	21.0	20.8	21.2	23.4	24.6	24.6
47.5°	37.7	38.0	34.4	32.1	34.0	31.5	29.5	27.8	31.2	28.1	27.7
45°	71.0	69.4	61.1	62.0	59.7	55.6	47.1	51.6	47.7	42.7	32.9
42.5°	124.4	121.9	113.3	118.1	109.7	99.1	94.4	99.2	83.1	67.4	71.1
40°	225.9	197.1	213.7	221.2	199.5	168.0	211.3	181.6	154.7	111.3	146.4
37.5°	471.4	384.3	462.4	464.6	402.6	370.3	417.2	376.1	262.6	277.8	282.6
35°	1011.7	963.4	945.9	912.3	796.2	834.9	748.2	661.9	568.4	537.6	486.5
32.5°	1832.0	1883.4	1762.1	1613.2	1599.0	1519.5	1339.7	1079.1	1080.2	973.9	795.8
30°	3257.1	3188.2	2970.8	2723.7	2718.7	2515.8	2115.0	1940.8	1779.9	1538.5	1199.1
27.5°	5399.8	4922.7	4579.9	4387.4	4102.4	3768.3	3374.5	2967.2	2623.5	2255.6	1798.8
25°	7925.6	7331.8	6717.7	6310.3	5814.2	5286.9	4797.7	4226.4	3651.5	3074.4	2495.6
22.5°	10635.2	9913.9	9164.7	8407.1	7665.0	6988.3	6339.4	5581.8	4705.1	3894.9	3225.5
20°	13418.3	12433.1	11529.6	10478.5	9472.7	8649.1	7915.5	6872.3	5701.8	4717.1	3936.3
17.5°	16062.9	14806.8	13534.2	12228.8	11140.8	10248.5	9113.3	7893.5	6632.6	5490.3	4615.3
15°	18442.7	16715.0	15199.7	13824.5	12511.2	11218.0	10028.0	8821.6	7502.7	6267.3	5235.5
12.5°	20090.6	18279.9	16652.9	14918.5	13386.8	12033.4	10825.3	9615.7	8231.1	6782.0	5581.7
10°	21298.4	19336.0	17436.5	15667.8	14127.9	12755.7	11413.7	10038.9	8542.3	7090.5	5869.3
7.5°	21854.4	19894.1	18025.8	16207.3	14599.2	13163.6	11738.3	10307.1	8764.7	7304.1	6100.3
5°	22113.6	20235.7	18379.8	16485.1	14870.6	13451.5	12002.5	10510.9	8900.3	7432.8	6277.3
2.5°	22350.7	20419.8	18555.7	16603.0	15031.1	13646.8	12233.2	10716.7	9068.8	7566.8	6390.6
0°	22508.0	20608.5	18721.7	16679.8	15121.6	13767.9	12433.4	10899.8	9215.3	7660.3	6458.5
-2.5°	22237.3	20326.9	18471.0	16523.7	14930.9	13597.0	12288.5	10823.9	9186.9	7660.3	6461.3
-5°	21646.4	19761.5	17943.6	16084.8	14495.9	13171.4	11910.9	10542.6	9020.4	7576.9	6422.5
-7.5°	20540.3	18855.8	17205.9	15476.2	13912.2	12592.8	11358.9	10057.5	8653.9	7301.3	6193.7
-10°	19130.0	17582.2	16041.1	14509.5	13134.0	11919.6	10745.2	9527.7	8229.1	6971.3	5927.9
-12.5°	17727.6	16251.6	14783.8	13377.7	12178.0	11059.8	10016.6	8945.5	7754.0	6588.4	5629.2
-15°	16213.4	14881.9	13586.7	12333.9	11173.4	10152.2	9229.7	8273.5	7216.3	6173.7	5300.5
-17.5°	14896.8	13572.6	12384.9	11372.5	10317.4	9279.5	8453.4	7615.8	6714.2	5813.8	5018.8
-20°	13732.6	12609.9	11455.2	10488.0	9586.6	8684.0	7795.3	6999.6	6248.4	5487.1	4775.4



REPORT NUMBER: P731350 (CONVERTED FROM TYPE C PHOTOMETRY)
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CANDELA DISTRIBUTION (continued):

	20°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°
-22.5°	12788.3	11772.1	10753.1	9769.9	8917.3	8147.1	7366.3	6575.2	5813.5	5152.4	4539.9
-25°	11948.8	10989.3	10095.5	9265.3	8399.6	7636.9	6976.1	6275.3	5548.8	4856.4	4322.5
-27.5°	11246.5	10372.6	9567.0	8816.1	8037.4	7289.0	6635.1	5986.7	5312.5	4690.5	4142.3
-30°	10643.8	9884.3	9138.9	8431.7	7719.4	7015.6	6338.2	5722.9	5097.4	4511.0	3992.3
-32.5°	10071.9	9367.3	8688.3	8043.6	7380.6	6720.6	6085.1	5456.2	4854.4	4329.0	3847.8
-35°	9472.9	8818.9	8211.6	7614.4	7019.1	6405.8	5797.4	5181.2	4620.2	4127.2	3680.6
-37.5°	8885.0	8279.3	7717.8	7164.1	6622.2	6062.5	5476.4	4914.8	4384.2	3914.4	3491.5
-40°	8284.9	7737.1	7211.2	6703.7	6197.9	5691.0	5156.8	4635.3	4149.0	3680.5	3283.6
-42.5°	7656.4	7167.0	6692.8	6224.7	5753.8	5292.3	4824.8	4353.8	3897.2	3461.4	3063.1
-45°	7006.9	6583.3	6157.6	5730.1	5298.7	4891.1	4489.8	4058.6	3634.6	3229.1	2835.7
-47.5°	6378.7	6008.4	5619.7	5236.7	4865.8	4495.7	4133.6	3750.8	3361.9	2982.2	2632.6
-50°	5788.5	5451.1	5109.3	4770.6	4443.9	4109.4	3774.1	3437.4	3079.5	2740.2	2421.2
-52.5°	5195.2	4909.3	4618.0	4324.1	4028.6	3722.1	3412.1	3112.1	2796.3	2499.0	2216.7
-55°	4639.7	4387.5	4131.7	3872.3	3614.2	3344.7	3068.2	2795.5	2529.9	2260.4	2017.7
-57.5°	4094.7	3871.8	3660.9	3443.9	3221.7	2985.6	2744.8	2501.3	2266.9	2036.6	1817.3
-60°	3594.1	3406.3	3221.1	3034.9	2849.2	2646.6	2429.7	2216.0	2006.5	1815.1	1628.9
-62.5°	3106.9	2944.1	2791.1	2637.4	2477.5	2305.1	2119.8	1946.1	1771.3	1599.4	1448.5
-65°	2657.7	2522.5	2388.0	2261.7	2134.4	2005.3	1848.3	1694.6	1547.4	1405.8	1273.8
-67.5°	2248.1	2139.2	2032.3	1926.5	1820.9	1713.5	1584.3	1453.8	1333.0	1218.2	1106.1
-70°	1863.6	1776.1	1688.7	1601.1	1515.1	1430.9	1333.3	1230.4	1130.0	1032.4	934.6
-72.5°	1499.6	1431.8	1364.1	1298.2	1231.5	1166.0	1090.5	1006.3	922.8	840.6	761.3
-75°	1159.9	1110.0	1059.6	1010.5	959.6	907.1	852.3	789.6	726.4	663.0	600.2
-77.5°	850.3	816.1	781.1	748.4	714.8	680.6	641.7	591.7	544.4	497.7	452.2
-80°	579.2	558.0	536.3	517.1	496.5	474.6	449.5	413.9	378.6	345.9	316.2
-82.5°	351.9	341.3	330.0	319.0	306.9	293.7	279.0	258.2	237.8	217.8	198.3
-85°	175.1	170.9	166.3	161.5	156.4	150.8	144.7	135.9	126.8	117.4	107.7
-87.5°	64.1	62.7	61.3	60.2	59.0	57.7	56.3	53.1	49.8	46.6	43.4
-90°	2.1	2.1	2.1	2.4	2.7	2.9	3.2	3.2	3.2	3.2	3.2



REPORT NUMBER: P731350 (CONVERTED FROM TYPE C PHOTOMETRY)
 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	47.5°	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°
90°	8.3	8.1	7.8	7.5	7.5	7.5	7.5	7.5	7.2	7.0	6.7
87.5°	5.6	6.3	7.0	7.5	7.1	6.7	6.3	5.9	6.1	6.3	6.4
85°	10.5	10.8	11.3	11.8	11.1	10.1	9.3	8.6	8.8	8.9	8.8
82.5°	17.9	17.0	16.5	16.2	16.0	15.5	14.6	13.3	12.0	11.4	11.2
80°	31.7	28.4	25.4	22.8	21.4	21.0	20.4	18.9	16.1	14.1	13.0
77.5°	44.5	39.9	35.6	31.4	27.7	25.2	23.9	23.3	19.9	16.6	14.4
75°	56.2	50.1	44.4	38.8	33.4	29.0	26.0	24.0	21.4	18.8	15.7
72.5°	64.0	57.5	51.6	45.5	38.5	32.6	28.0	24.6	22.0	19.3	16.6
70°	69.5	63.1	56.4	49.5	42.6	35.9	30.0	25.9	22.5	19.8	17.0
67.5°	72.8	65.6	59.0	52.7	45.6	38.5	31.7	27.4	23.8	20.2	17.4
65°	65.5	63.1	60.4	53.7	47.4	40.9	33.7	28.9	25.0	21.3	17.7
62.5°	56.0	56.0	54.4	52.8	47.8	41.6	35.7	30.8	26.2	22.3	18.5
60°	44.3	46.3	47.9	47.5	45.8	41.5	36.4	32.5	27.7	23.3	19.3
57.5°	35.8	37.2	40.2	42.0	41.5	39.5	36.8	33.3	28.9	24.3	20.2
55°	29.2	31.8	34.3	36.4	37.4	36.2	36.6	33.9	30.0	25.2	21.1
52.5°	25.9	28.4	30.9	32.4	33.5	34.0	35.6	34.4	30.5	26.0	22.2
50°	24.9	27.5	29.4	30.6	30.7	33.2	35.3	34.6	31.1	26.7	23.3
47.5°	28.7	30.9	30.2	30.1	30.0	33.3	35.8	35.2	31.7	27.2	24.6
45°	42.7	39.1	35.1	32.1	32.2	35.6	37.0	36.3	32.8	28.7	26.0
42.5°	67.7	60.8	46.5	35.1	41.3	39.5	38.9	38.1	34.3	30.5	27.5
40°	136.8	95.8	66.2	61.3	56.6	44.7	43.2	40.5	36.3	32.8	29.2
37.5°	233.3	169.1	107.3	109.5	84.4	63.6	48.5	43.4	39.8	35.7	31.1
35°	400.6	282.1	223.5	199.0	142.9	86.9	54.6	47.6	44.1	38.8	33.1
32.5°	607.5	495.6	437.5	335.1	216.1	114.5	71.4	55.5	48.8	42.0	35.2
30°	957.2	864.6	701.3	502.2	319.5	182.4	100.9	64.6	54.1	45.3	37.5
27.5°	1484.5	1299.7	1022.5	743.6	478.8	264.9	144.5	74.8	59.8	49.1	40.2
25°	2058.7	1792.9	1440.7	1030.6	658.4	396.1	197.8	87.1	67.4	53.7	42.9
22.5°	2693.0	2302.6	1902.4	1344.4	857.6	548.4	282.6	127.8	76.3	58.4	45.6
20°	3300.7	2821.5	2364.0	1590.7	1070.3	725.6	400.9	173.4	85.6	63.3	48.3
17.5°	3891.0	3247.5	2613.6	1859.0	1278.9	892.9	528.7	222.8	95.2	68.2	51.0
15°	4293.5	3532.0	2847.2	2098.7	1465.3	1050.3	663.1	274.7	104.9	73.2	55.0
12.5°	4601.9	3789.8	3070.2	2309.7	1630.4	1197.6	800.9	327.9	114.6	80.8	60.9
10°	4866.8	4020.3	3279.3	2492.6	1775.5	1334.9	938.7	378.1	129.7	90.7	66.7
7.5°	5089.2	4223.1	3471.2	2647.9	1894.1	1425.5	1023.2	418.8	145.2	100.5	72.5
5°	5262.7	4373.3	3622.9	2753.7	1955.8	1466.2	1087.1	454.4	160.3	110.2	78.1
2.5°	5365.9	4454.9	3737.5	2832.4	2005.1	1496.1	1136.8	484.4	174.8	119.5	83.6
0°	5433.3	4507.6	3823.8	2886.3	2040.8	1516.4	1171.8	508.3	188.4	128.4	88.8
-2.5°	5458.9	4515.5	3836.2	2955.1	2113.5	1579.1	1205.9	574.7	252.0	172.0	116.7
-5°	5444.8	4499.3	3823.5	2998.4	2170.9	1631.3	1227.3	634.5	313.5	214.3	144.0
-7.5°	5274.6	4404.4	3757.4	3005.0	2212.4	1671.2	1238.4	687.8	372.2	254.7	170.1
-10°	5047.4	4251.8	3620.3	2914.5	2207.9	1695.3	1244.3	734.7	427.0	292.6	194.7
-12.5°	4795.3	4079.3	3471.3	2815.8	2188.0	1708.3	1260.7	778.4	477.1	327.3	217.3
-15°	4522.5	3888.2	3314.7	2713.8	2160.2	1714.9	1269.5	815.8	522.4	360.1	237.8
-17.5°	4254.1	3679.9	3154.3	2613.5	2126.3	1716.1	1272.0	844.7	562.5	391.9	259.6
-20°	4108.3	3528.6	2996.7	2519.0	2087.9	1712.9	1269.2	864.9	596.8	419.8	281.9



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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°	3962.7	3429.5	2921.0	2452.0	2055.6	1706.2	1262.2	876.0	625.0	443.7	301.3
-25°	3809.7	3325.2	2847.7	2404.6	2033.9	1681.7	1258.7	877.9	646.6	463.3	317.6
-27.5°	3674.3	3219.9	2762.9	2338.7	1991.4	1655.8	1253.2	898.7	663.6	478.4	330.6
-30°	3547.4	3113.5	2673.2	2261.7	1933.6	1593.3	1236.6	911.8	678.8	491.2	340.1
-32.5°	3416.4	2996.8	2565.2	2186.4	1856.8	1522.3	1190.1	915.8	687.8	500.9	348.3
-35°	3263.6	2855.4	2439.1	2093.0	1770.8	1449.0	1138.0	910.5	690.5	505.7	353.4
-37.5°	3090.1	2689.8	2320.0	1987.8	1678.6	1370.2	1100.1	883.5	686.8	505.5	354.8
-40°	2898.3	2524.4	2183.4	1881.0	1585.0	1286.4	1055.0	855.1	680.5	500.3	352.4
-42.5°	2696.6	2362.8	2052.9	1767.7	1488.1	1228.0	1004.5	821.4	657.3	492.4	346.1
-45°	2508.0	2198.5	1917.7	1652.8	1391.1	1162.3	960.9	783.3	628.1	480.6	337.5
-47.5°	2313.4	2039.7	1780.8	1531.3	1308.9	1093.8	911.4	745.4	594.9	463.5	327.6
-50°	2129.9	1880.0	1643.1	1421.9	1215.1	1031.6	857.8	702.8	561.7	434.8	314.4
-52.5°	1957.3	1725.8	1512.9	1312.0	1131.9	963.1	803.9	656.0	524.7	406.9	297.9
-55°	1785.8	1578.9	1385.6	1210.4	1047.1	893.5	744.8	608.9	484.0	377.6	278.9
-57.5°	1620.8	1433.2	1269.0	1111.5	960.3	818.6	684.1	557.7	444.5	345.6	260.4
-60°	1454.9	1302.9	1154.9	1008.6	869.6	741.2	620.7	504.7	403.1	312.1	237.2
-62.5°	1304.6	1168.3	1034.4	900.5	777.2	662.4	554.2	452.1	358.5	280.8	211.5
-65°	1150.5	1028.4	908.1	793.4	683.7	581.5	488.3	396.1	317.3	247.5	186.1
-67.5°	994.6	888.0	785.8	684.0	590.9	503.0	418.8	343.9	275.4	212.5	164.2
-70°	838.9	746.8	663.1	580.9	499.7	423.0	356.3	292.2	231.5	184.1	141.2
-72.5°	686.6	614.7	545.8	476.8	411.9	350.6	293.2	240.8	195.8	154.6	117.3
-75°	539.5	485.6	433.7	380.9	326.8	276.6	235.9	197.3	159.1	124.1	96.5
-77.5°	408.6	366.0	324.3	287.6	250.3	215.4	183.0	152.4	123.1	98.4	76.4
-80°	287.9	260.1	233.2	206.6	178.8	153.0	132.5	112.6	91.5	72.5	55.8
-82.5°	179.0	163.3	148.6	133.7	117.7	102.4	87.8	73.8	59.2	46.1	38.3
-85°	98.2	88.8	79.3	69.9	60.3	51.3	46.9	42.6	37.4	32.5	27.9
-87.5°	41.0	38.6	36.3	33.9	31.6	29.4	27.2	25.1	22.4	19.7	17.3
-90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.5	3.8	4.0



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CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
90°	6.4	6.2	5.9	5.7	5.4	4.9	4.3
87.5°	6.5	6.2	6.0	5.8	5.8	5.0	4.3
85°	8.7	7.8	7.1	6.5	6.1	5.2	4.3
82.5°	10.9	9.4	8.1	7.2	6.5	5.3	4.3
80°	12.8	10.9	9.2	7.9	6.8	5.5	4.3
77.5°	13.3	12.0	10.3	8.5	7.2	5.6	4.3
75°	13.7	12.2	11.1	9.2	7.5	5.8	4.3
72.5°	14.1	12.4	11.1	9.8	7.8	5.9	4.3
70°	14.5	12.6	11.2	10.2	8.2	6.1	4.3
67.5°	14.9	12.7	11.1	10.2	8.5	6.2	4.3
65°	15.4	13.0	11.1	10.1	8.8	6.3	4.3
62.5°	15.8	13.4	11.0	10.0	9.0	6.5	4.3
60°	16.2	13.8	11.0	9.8	9.3	6.6	4.3
57.5°	17.0	14.2	11.3	9.7	9.2	6.7	4.3
55°	17.9	14.6	11.7	9.5	9.2	6.8	4.3
52.5°	18.7	15.1	12.0	9.3	9.1	6.9	4.3
50°	19.5	15.8	12.4	9.1	9.0	7.0	4.3
47.5°	20.4	16.4	12.7	9.0	9.0	7.1	4.3
45°	21.6	17.1	13.0	9.3	8.9	7.2	4.3
42.5°	22.8	17.7	13.4	9.5	8.9	7.3	4.3
40°	24.1	18.3	13.7	9.9	8.9	7.4	4.3
37.5°	25.5	18.8	14.2	10.4	8.9	7.4	4.3
35°	26.8	19.7	14.6	10.9	8.9	7.5	4.3
32.5°	28.3	20.8	15.0	11.5	8.9	7.5	4.3
30°	30.0	21.8	15.3	12.0	9.0	7.6	4.3
27.5°	31.7	22.8	16.4	12.6	9.0	7.6	4.3
25°	33.4	23.8	17.6	13.1	9.0	7.6	4.3
22.5°	35.1	25.3	18.9	13.7	9.1	7.6	4.3
20°	36.8	28.0	20.3	14.3	9.1	7.7	4.3
17.5°	39.9	30.8	21.7	14.8	9.2	7.7	4.3
15°	43.9	33.6	23.1	15.4	9.3	7.7	4.3
12.5°	47.9	36.4	24.5	15.9	9.3	7.6	4.3
10°	51.9	39.1	25.9	16.4	9.4	7.6	4.3
7.5°	55.7	41.8	27.2	16.9	9.4	7.6	4.3
5°	59.4	44.4	28.6	17.4	9.5	7.6	4.3
2.5°	63.0	46.9	29.8	17.8	9.6	7.5	4.3
0°	66.4	49.2	31.0	18.2	9.6	7.5	4.3
-2.5°	83.0	58.8	36.0	20.4	10.3	7.6	4.3
-5°	99.3	68.2	40.9	22.6	11.1	7.8	4.3
-7.5°	114.9	77.1	45.6	24.6	11.8	7.9	4.3
-10°	129.6	85.5	50.0	26.6	12.5	8.0	4.3
-12.5°	143.4	93.3	54.1	28.4	13.1	8.1	4.3
-15°	155.9	100.3	57.7	30.0	13.7	8.2	4.3
-17.5°	167.1	106.5	61.0	31.4	14.3	8.3	4.3
-20°	179.3	111.8	63.8	32.7	14.8	8.3	4.3



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 CATALOG NUMBER: EPH-LS-08-0320N-40-80-7F-CV1

CANDELA DISTRIBUTION (continued):

	75°	77.5°	80°	82.5°	85°	87.5°	90°
-22.5°	193.8	116.1	66.1	33.7	15.2	8.4	4.3
-25°	206.2	122.6	67.8	34.5	15.6	8.4	4.3
-27.5°	216.3	129.3	69.0	35.0	16.0	8.5	4.3
-30°	224.0	134.4	69.8	35.3	16.2	8.5	4.3
-32.5°	229.1	138.0	72.4	35.3	16.4	8.5	4.3
-35°	232.7	140.0	74.1	35.1	16.5	8.5	4.3
-37.5°	234.5	141.0	74.9	34.5	16.5	8.5	4.3
-40°	233.8	141.5	74.7	33.6	16.4	8.4	4.3
-42.5°	230.6	140.4	74.3	32.9	16.3	8.4	4.3
-45°	225.1	137.9	73.9	32.5	16.1	8.3	4.3
-47.5°	217.0	133.8	72.6	31.7	15.8	8.2	4.3
-50°	209.1	128.1	70.6	31.4	15.4	8.1	4.3
-52.5°	199.4	121.0	67.7	31.1	14.9	8.0	4.3
-55°	187.6	115.0	64.2	30.4	14.3	7.8	4.3
-57.5°	173.7	108.3	59.8	29.4	13.7	7.7	4.3
-60°	158.5	100.6	54.9	28.0	13.0	7.5	4.3
-62.5°	145.8	91.7	51.5	26.4	12.6	7.4	4.3
-65°	131.7	81.9	47.5	24.4	12.1	7.2	4.3
-67.5°	116.2	72.8	43.0	22.2	11.5	7.0	4.3
-70°	99.6	64.5	38.1	19.7	10.9	6.8	4.3
-72.5°	85.6	55.6	32.7	18.1	10.3	6.5	4.3
-75°	71.4	46.1	27.0	16.5	9.7	6.3	4.3
-77.5°	56.5	36.1	23.3	14.9	9.0	6.1	4.3
-80°	41.0	29.0	20.0	13.1	8.3	5.9	4.3
-82.5°	31.9	23.5	16.6	11.3	7.6	5.6	4.3
-85°	23.5	17.8	13.1	9.5	6.9	5.4	4.3
-87.5°	15.0	12.0	9.5	7.6	6.1	5.1	4.3
-90°	4.3	4.6	4.9	5.1	5.4	4.9	4.3

(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

