

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: P628121

Luminaire Tested: **EPH-VN-04-E-730-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628121
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-730-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32325.7 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

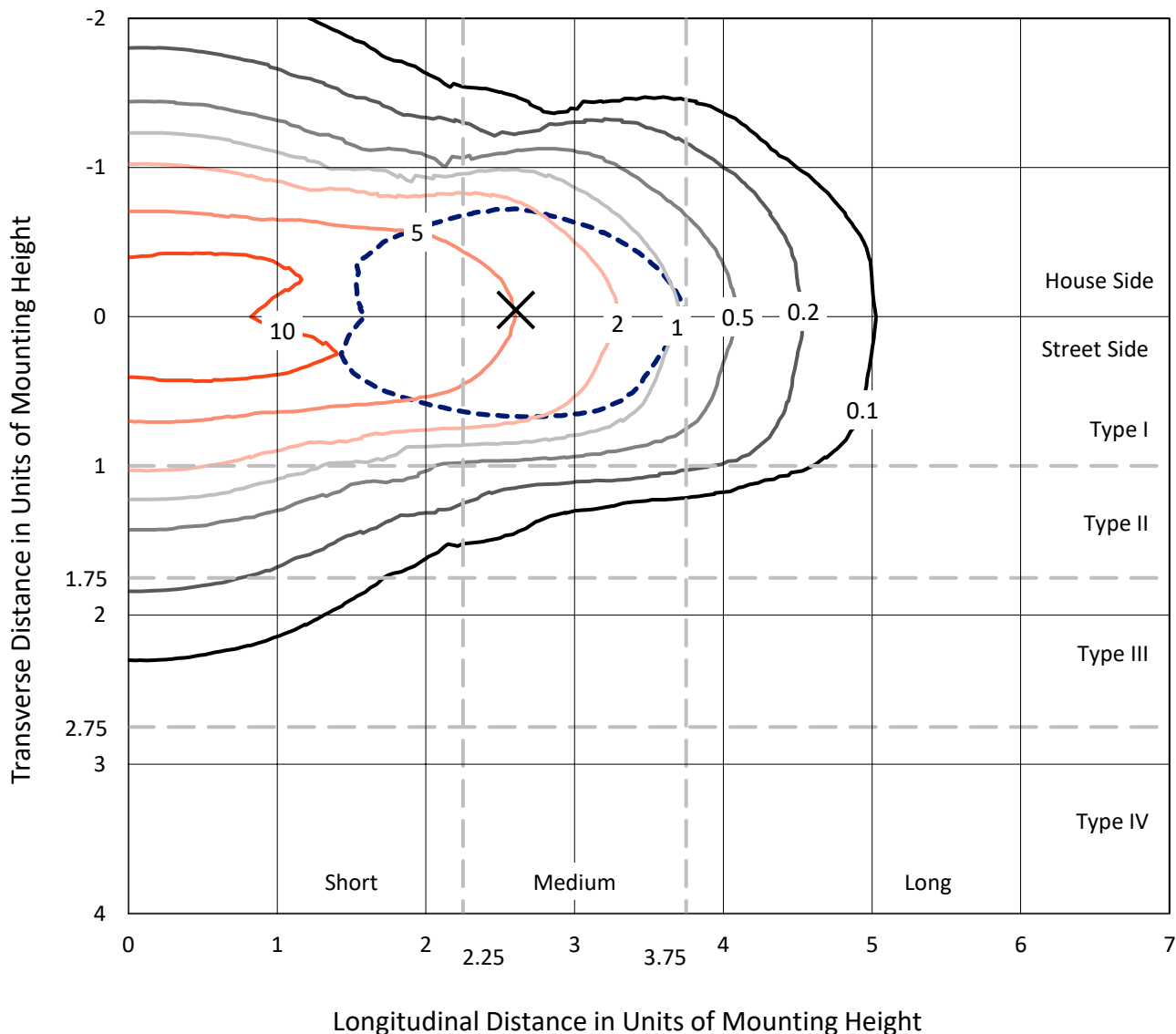
Input Watts (W): 303.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P628121
 CATALOG NUMBER: EPH-VN-04-E-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

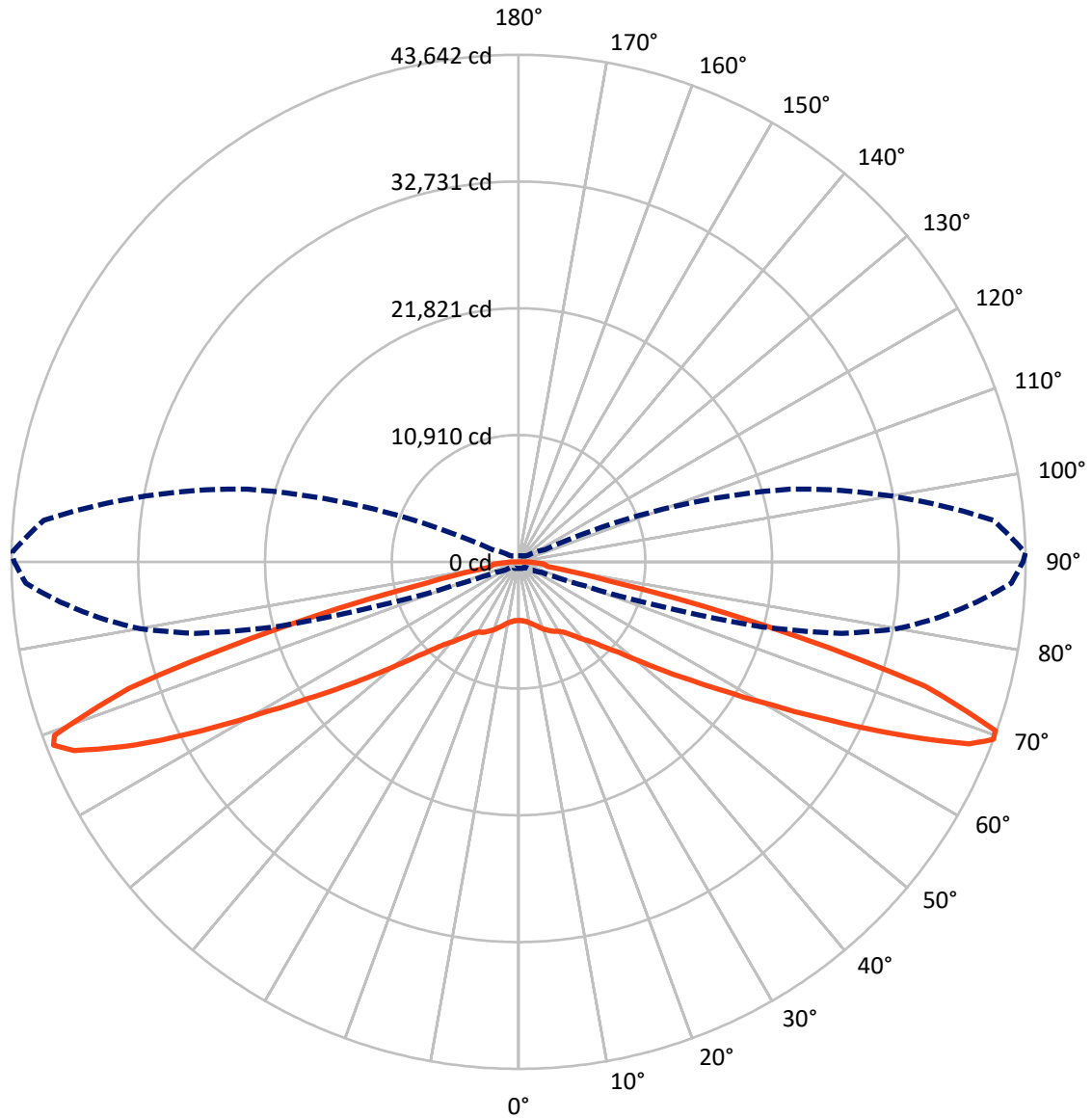
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.8 fc
 Type I - Short - N/A

REPORT NUMBER: P628121
CATALOG NUMBER: EPH-VN-04-E-730-U-T1

Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P628121
 CATALOG NUMBER: EPH-VN-04-E-730-U-T1

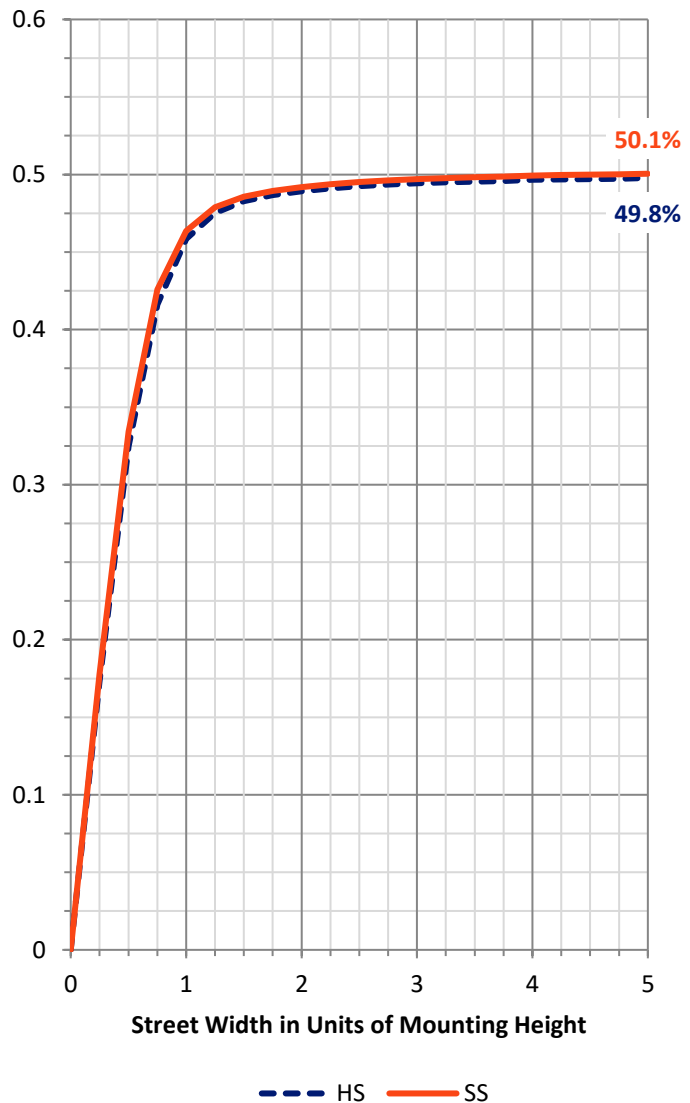
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16206.4	0.0	16206.4
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	16119.4	0.0	16119.4
	% Fixture	49.9	0.0	49.9
Total	Lumens	32325.7	0.0	32325.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.2	1.6
10°-20°	1667.4	5.2
20°-30°	2859.4	8.8
30°-40°	3950.1	12.2
40°-50°	5078.7	15.7
50°-60°	6318.9	19.5
60°-70°	7750.0	24.0
70°-80°	3823.1	11.8
80°-90°	368.8	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32325.7	100.0
0°-180°	32325.7	100.0

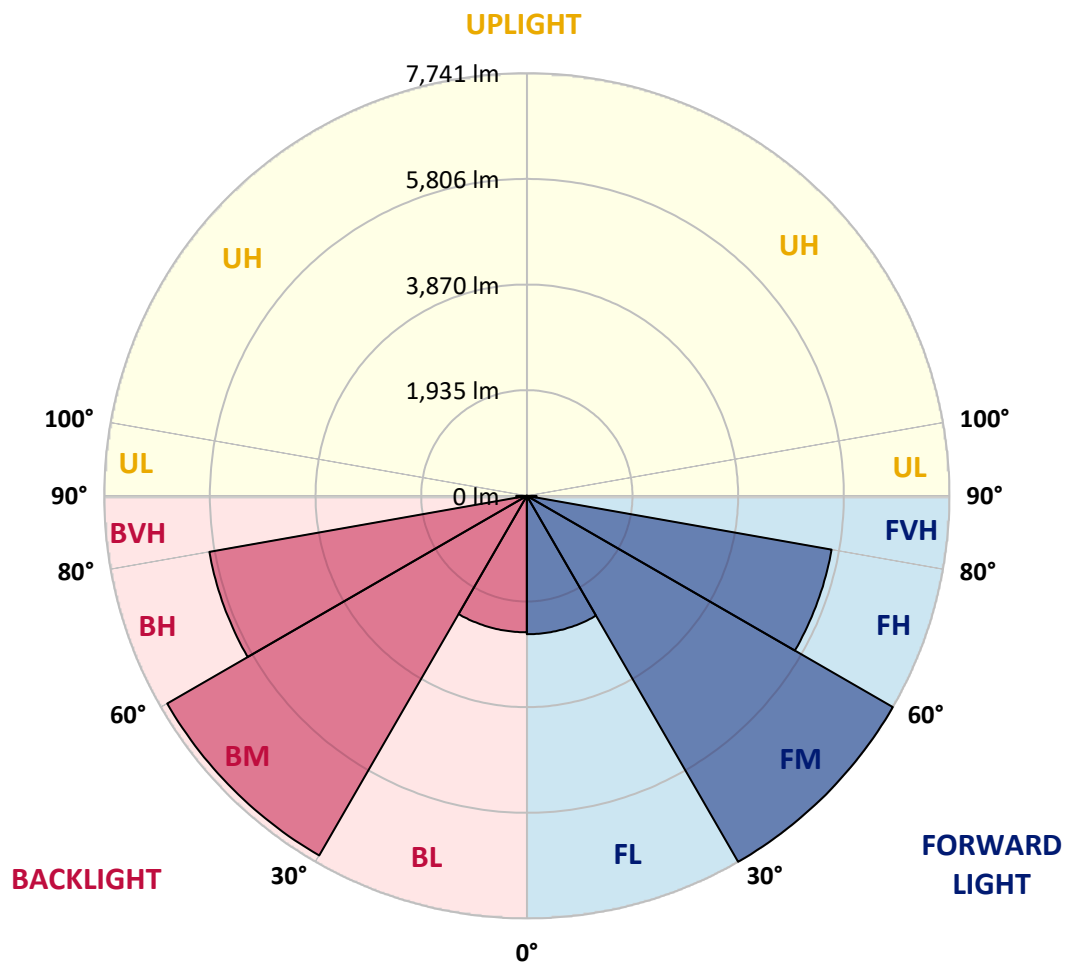


REPORT NUMBER: P628121
 CATALOG NUMBER: EPH-VN-04-E-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2534.9	7.8			
FM (30°-60°)	7741.0	23.9			
FH (60°-80°)	5668.6	17.5			G3/7500
FVH (80°-90°)	174.9	0.5			G2/225
BL (0°-30°)	2501.2	7.7	B4/5000		
BM (30°-60°)	7606.8	23.5	B4/8500		
BH (60°-80°)	5904.5	18.3	B5		G5
BVH (80°-90°)	193.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





REPORT NUMBER: P628121
 CATALOG NUMBER: EPH-VN-04-E-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	70°
0°	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0
2.5°	5115.8	5160.7	5122.7	5140.0	5160.7	5150.3	5143.4	5095.1	5112.4	5091.7
5°	5295.2	5326.3	5302.1	5298.7	5278.0	5274.5	5253.8	5177.9	5212.4	5164.1
7.5°	5450.4	5481.5	5450.4	5460.8	5467.7	5447.0	5429.7	5347.0	5353.9	5322.8
10°	5564.3	5612.6	5578.1	5647.1	5647.1	5674.7	5650.5	5529.8	5533.2	5495.3
12.5°	5640.2	5698.8	5685.0	5798.9	5857.5	5871.3	5898.9	5795.4	5788.5	5716.1
15°	5585.0	5595.3	5667.8	5843.7	6047.2	6143.8	6192.1	6071.4	6078.3	5995.5
17.5°	5409.0	5443.5	5512.5	5819.6	6078.3	6364.6	6461.2	6392.2	6378.4	6285.3
20°	5215.9	5222.8	5336.6	5688.5	6088.6	6499.1	6785.5	6730.3	6726.8	6668.2
22.5°	4974.4	4977.8	5136.5	5526.3	6057.6	6561.2	7075.2	7147.7	7099.4	7044.2
25°	4674.3	4712.2	4898.5	5336.6	5950.6	6626.8	7244.3	7482.3	7465.0	7413.3
27.5°	4391.4	4419.0	4622.5	5067.5	5723.0	6530.2	7489.2	7906.6	7861.7	7779.0
30°	4136.1	4181.0	4391.4	4791.6	5440.1	6409.4	7651.3	8255.0	8306.7	8213.6
32.5°	3860.2	3915.3	4136.1	4550.1	5177.9	6295.6	7789.3	8665.5	8793.1	8686.2
35°	3584.2	3625.6	3846.4	4291.4	4988.2	6043.8	7816.9	9196.8	9355.4	9296.8
37.5°	3342.7	3380.7	3598.0	4022.3	4732.9	5857.5	7754.8	9638.3	9924.6	10083.3
40°	3073.6	3121.9	3335.8	3763.6	4394.8	5581.5	7678.9	10131.6	10542.1	10752.5
42.5°	2773.5	2839.1	3046.0	3487.6	4132.7	5240.0	7451.2	10462.8	11101.0	11473.5
45°	2456.1	2504.4	2728.7	3135.7	3822.2	4843.3	7130.4	10866.4	11701.2	12391.1
47.5°	2073.2	2104.3	2332.0	2759.7	3387.6	4432.8	6723.4	11176.9	12373.9	13239.7
50°	1655.8	1686.9	1869.7	2300.9	2911.5	3922.2	6099.0	11307.9	12846.5	14060.8
52.5°	1293.6	1317.8	1462.6	1786.9	2366.5	3339.3	5367.6	11276.9	13146.6	14912.8
55°	1007.3	1028.0	1131.5	1376.4	1814.5	2649.3	4601.8	10707.7	13239.7	15509.6
57.5°	865.9	876.2	924.5	1065.9	1390.2	2007.7	3629.0	9707.3	12780.9	15913.2
60°	762.4	765.8	803.8	900.4	1076.3	1493.7	2652.8	8110.1	11639.1	15657.9
62.5°	710.6	714.1	734.8	800.3	890.0	1128.0	1880.1	6230.1	9614.2	14605.8
65°	665.8	669.2	686.5	727.9	765.8	903.8	1383.3	4108.5	6926.9	11901.3
67.5°	607.1	614.0	631.3	665.8	696.8	752.0	1052.1	2649.3	4360.4	8220.5
69°	569.2	576.1	593.3	620.9	648.5	700.3	910.7	2114.6	3291.0	6043.8
70°	541.6	548.5	569.2	596.8	620.9	669.2	838.3	1876.6	2811.5	4919.2
72.5°	472.6	479.5	493.3	520.9	548.5	583.0	676.1	1341.9	1911.1	3021.9
75°	403.6	407.1	417.4	445.0	472.6	500.2	569.2	948.7	1269.5	1855.9
77.5°	313.9	317.4	331.2	362.2	379.5	417.4	483.0	658.9	831.4	1079.7
80°	227.7	238.0	255.3	282.9	293.2	313.9	372.6	472.6	548.5	662.3
82.5°	155.2	162.1	179.4	203.5	210.4	210.4	265.6	348.4	389.8	431.2
85°	89.7	93.1	89.7	103.5	120.7	124.2	172.5	210.4	241.5	279.4
87.5°	27.6	27.6	27.6	34.5	41.4	44.8	75.9	96.6	120.7	144.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P628121
 CATALOG NUMBER: EPH-VN-04-E-730-U-T1

CANDELA DISTRIBUTION (continued):

72.5°		75°	77.5°	80°	82.5°	85°	87.5°	90°	91°	95°
5071.0	0°	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0
5095.1	2.5°	5081.3	5122.7	5074.4	5071.0	5067.5	5043.4	5060.6	5057.2	5095.1
5184.8	5°	5153.8	5153.8	5126.2	5146.9	5140.0	5060.6	5133.1	5133.1	5171.0
5298.7	7.5°	5257.3	5264.2	5250.4	5240.0	5226.2	5167.6	5212.4	5205.5	5236.6
5509.1	10°	5457.3	5450.4	5388.3	5388.3	5374.5	5312.5	5340.1	5360.7	5419.4
5712.6	12.5°	5674.7	5629.8	5636.7	5612.6	5567.7	5460.8	5502.2	5505.6	5564.3
5998.9	15°	5912.7	5864.4	5843.7	5823.0	5778.2	5678.1	5736.8	5702.3	5743.7
6261.1	17.5°	6233.5	6171.4	6099.0	6043.8	5978.2	5898.9	5926.5	5954.1	5981.7
6602.6	20°	6588.8	6488.8	6406.0	6316.3	6261.1	6161.1	6195.6	6199.0	6230.1
6961.4	22.5°	6871.7	6785.5	6692.3	6626.8	6512.9	6412.9	6374.9	6381.8	6437.0
7330.5	25°	7240.8	7085.6	6992.4	6885.5	6785.5	6613.0	6595.7	6602.6	6692.3
7744.5	27.5°	7561.6	7434.0	7278.8	7116.6	6971.7	6833.7	6813.1	6788.9	6895.8
8123.9	30°	7979.0	7789.3	7540.9	7385.7	7144.2	6951.0	6923.4	6947.6	7009.7
8679.3	32.5°	8427.5	8227.4	7965.2	7765.2	7471.9	7247.7	7216.7	7240.8	7354.6
9252.0	35°	9086.4	8869.0	8551.7	8244.7	7965.2	7720.3	7703.1	7665.1	7816.9
10038.5	37.5°	9876.3	9586.6	9286.4	8944.9	8648.3	8303.3	8203.3	8234.3	8358.5
10800.8	40°	10766.3	10490.4	10114.4	9724.6	9362.3	8996.7	8851.8	8831.1	9048.4
11794.3	42.5°	11794.3	11604.6	11056.1	10593.9	10117.8	9659.0	9486.5	9496.9	9697.0
12901.7	45°	12994.8	12853.4	12367.0	11787.4	11228.6	10645.6	10531.8	10538.7	10807.7
13902.1	47.5°	14412.6	14502.3	14043.5	13432.9	12743.0	12039.3	11763.3	11694.3	11994.4
15147.4	50°	15847.7	16413.4	16068.5	15485.5	14671.3	13840.0	13484.7	13360.5	13791.7
16382.4	52.5°	17527.7	18438.4	18545.3	18096.8	17182.7	16020.2	15626.9	15499.3	16047.8
17627.7	55°	19269.7	20659.9	21180.8	21242.9	20152.8	18876.5	18134.8	17986.5	18845.4
18717.8	57.5°	21029.0	23129.9	24195.8	24827.1	23912.9	22253.7	21198.1	21039.4	22560.7
19587.1	60°	22836.7	25686.1	27397.1	28990.8	28463.0	26620.9	24989.2	24996.1	27079.7
19959.7	62.5°	24157.9	27742.1	30467.3	33037.3	33513.3	32230.0	30163.7	29953.3	32157.6
18848.9	65°	24861.6	29684.2	33030.4	36079.8	37739.1	37677.0	35993.6	35807.3	37428.7
15633.8	67.5°	23809.5	29756.6	33951.4	36987.1	40029.7	41709.7	41495.8	41816.6	40864.5
12387.7	69°	21567.2	28476.8	33130.4	36524.9	39598.5	42437.5	43406.9	43641.5	41019.7
10252.3	70°	19104.1	26886.5	31760.9	35038.1	37859.9	41388.9	43465.5	43538.0	39646.8
5774.7	72.5°	11922.0	20152.8	24947.8	28080.1	29829.1	33171.8	36669.7	36611.1	31364.2
3228.9	75°	6261.1	11611.5	15520.0	17110.2	18089.9	19807.9	22174.3	21877.7	18852.3
1652.4	77.5°	2787.3	4933.0	6288.7	7189.1	7440.9	7941.1	8175.7	7982.5	7578.9
890.0	80°	1352.3	2042.2	2656.2	2808.0	2628.6	2504.4	2563.1	2535.5	2773.5
514.0	82.5°	672.7	938.3	1059.0	1269.5	1869.7	2297.5	2363.0	2335.4	2093.9
310.5	85°	358.8	431.2	496.7	910.7	1673.1	2097.4	2159.5	2149.1	1935.3
169.0	87.5°	200.1	248.4	358.8	727.9	1010.7	1069.4	1128.0	1093.5	1124.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P628121

CATALOG NUMBER: EPH-VN-04-E-730-U-T1

CANDELA DISTRIBUTION (continued):

105°	115°		125°	135°	145°	155°	165°	175°	180°
5071.0	5071.0	0°	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0	5071.0
5084.8	5129.6	2.5°	5102.0	5129.6	5143.4	5091.7	5122.7	5095.1	5102.0
5164.1	5222.8	5°	5188.3	5253.8	5243.5	5243.5	5250.4	5209.0	5226.2
5236.6	5322.8	7.5°	5360.7	5384.9	5440.1	5419.4	5398.7	5357.3	5364.2
5433.2	5516.0	10°	5595.3	5595.3	5629.8	5595.3	5529.8	5502.2	5495.3
5633.3	5788.5	12.5°	5823.0	5788.5	5809.2	5709.2	5633.3	5578.1	5605.7
5812.7	5992.0	15°	6026.5	6019.6	5943.7	5816.1	5629.8	5529.8	5536.7
6123.1	6281.8	17.5°	6330.1	6268.0	6067.9	5736.8	5505.6	5409.0	5360.7
6412.9	6595.7	20°	6630.2	6457.7	6054.1	5609.1	5302.1	5143.4	5146.9
6657.8	6920.0	22.5°	6892.4	6530.2	6005.8	5447.0	5115.8	4901.9	4898.5
7002.8	7258.1	25°	7144.2	6488.8	5909.2	5298.7	4908.8	4701.9	4674.3
7306.3	7637.5	27.5°	7340.8	6450.8	5674.7	5060.6	4626.0	4456.9	4439.7
7582.3	8054.9	30°	7465.0	6368.0	5464.2	4781.2	4363.8	4198.2	4191.3
8089.4	8410.2	32.5°	7606.5	6240.4	5188.3	4532.8	4132.7	3953.3	3942.9
8686.2	8934.6	35°	7737.6	6047.2	4964.0	4298.3	3891.2	3680.8	3649.7
9414.1	9527.9	37.5°	7765.2	5833.4	4684.6	4018.8	3591.1	3387.6	3384.1
10342.0	10041.9	40°	7768.6	5574.6	4387.9	3739.4	3297.9	3090.9	3077.1
11345.9	10476.6	42.5°	7630.6	5278.0	4091.3	3408.3	2994.3	2749.4	2732.1
12542.9	11007.8	45°	7313.2	4922.6	3711.8	3042.6	2659.7	2432.0	2404.4
13957.3	11487.3	47.5°	6888.9	4477.6	3328.9	2670.0	2280.2	2073.2	2056.0
15499.3	11797.8	50°	6316.3	3977.4	2866.7	2266.4	1897.3	1728.3	1686.9
17300.0	11839.2	52.5°	5605.7	3404.8	2383.7	1845.6	1545.4	1397.1	1373.0
19266.3	11494.2	55°	4757.1	2787.3	1904.2	1473.0	1200.5	1086.6	1065.9
21084.2	10621.5	57.5°	3811.9	2145.7	1466.1	1138.4	962.5	883.1	859.0
23105.7	8996.7	60°	2849.4	1617.9	1124.6	903.8	786.5	731.3	721.0
24909.9	6989.0	62.5°	2049.1	1217.7	883.1	755.5	689.9	662.3	655.4
25927.5	4695.0	65°	1507.5	938.3	734.8	683.0	634.7	610.6	600.2
25755.1	3073.6	67.5°	1121.1	752.0	652.0	620.9	586.4	562.3	555.4
24137.2	2449.2	69°	945.2	679.6	610.6	579.5	548.5	527.8	517.4
22219.2	2083.6	70°	855.5	641.6	589.9	558.8	524.3	507.1	496.7
14905.9	1400.6	72.5°	672.7	555.4	524.3	489.8	465.7	445.0	441.6
7830.7	990.0	75°	555.4	476.1	451.9	424.3	400.2	379.5	379.5
3411.7	710.6	77.5°	465.7	393.3	372.6	345.0	320.8	300.1	296.7
1638.6	514.0	80°	362.2	300.1	286.3	276.0	248.4	217.3	213.9
865.9	369.1	82.5°	258.7	203.5	200.1	193.2	169.0	151.8	144.9
469.2	220.8	85°	162.1	117.3	106.9	93.1	82.8	82.8	82.8
227.7	96.6	87.5°	62.1	34.5	34.5	27.6	20.7	20.7	20.7
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)