

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: P628120

Luminaire Tested: **EPH-VN-03-E-730-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628120
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-E-730-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24930.4 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

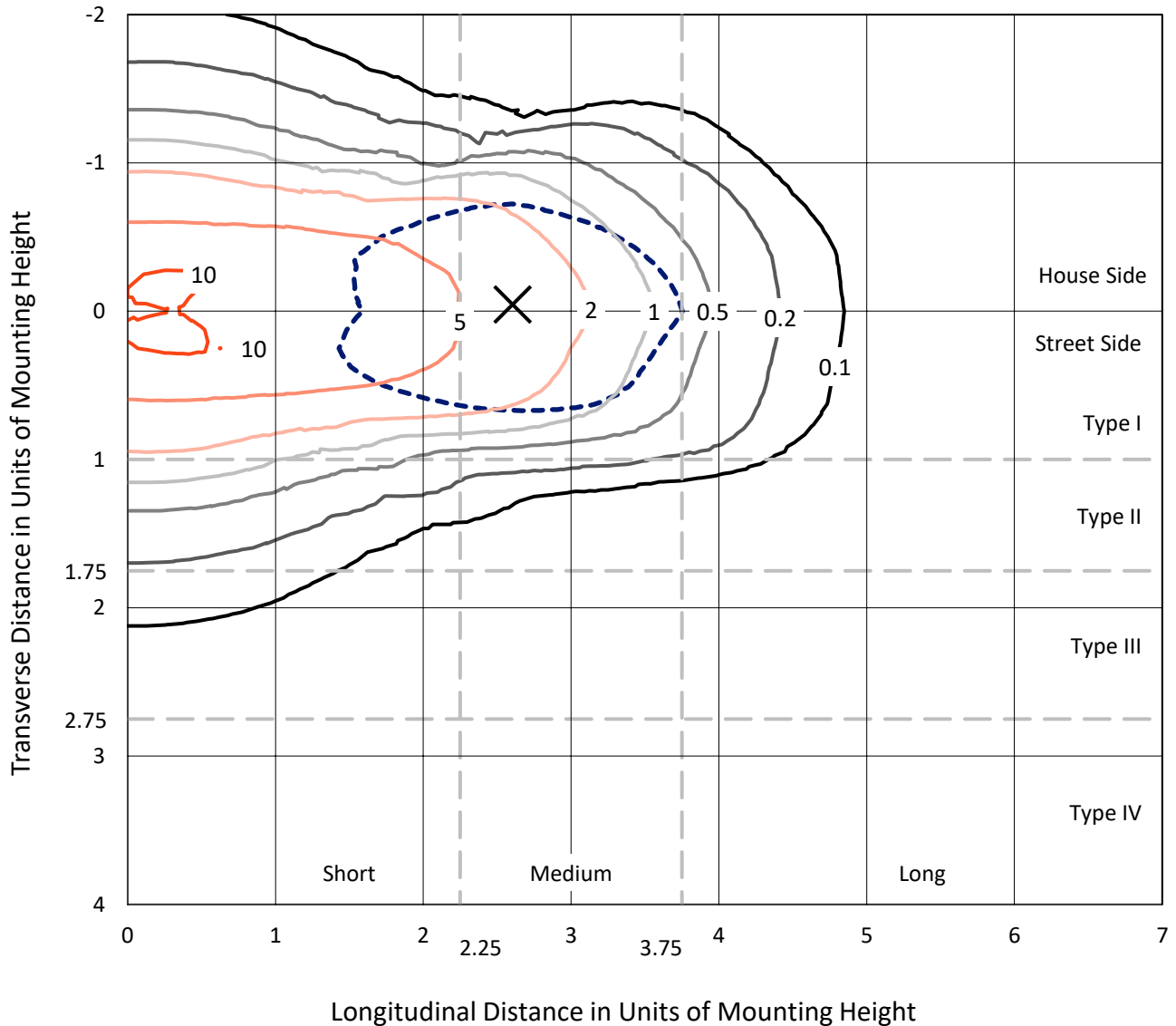
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P628120
 CATALOG NUMBER: EPH-VN-03-E-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

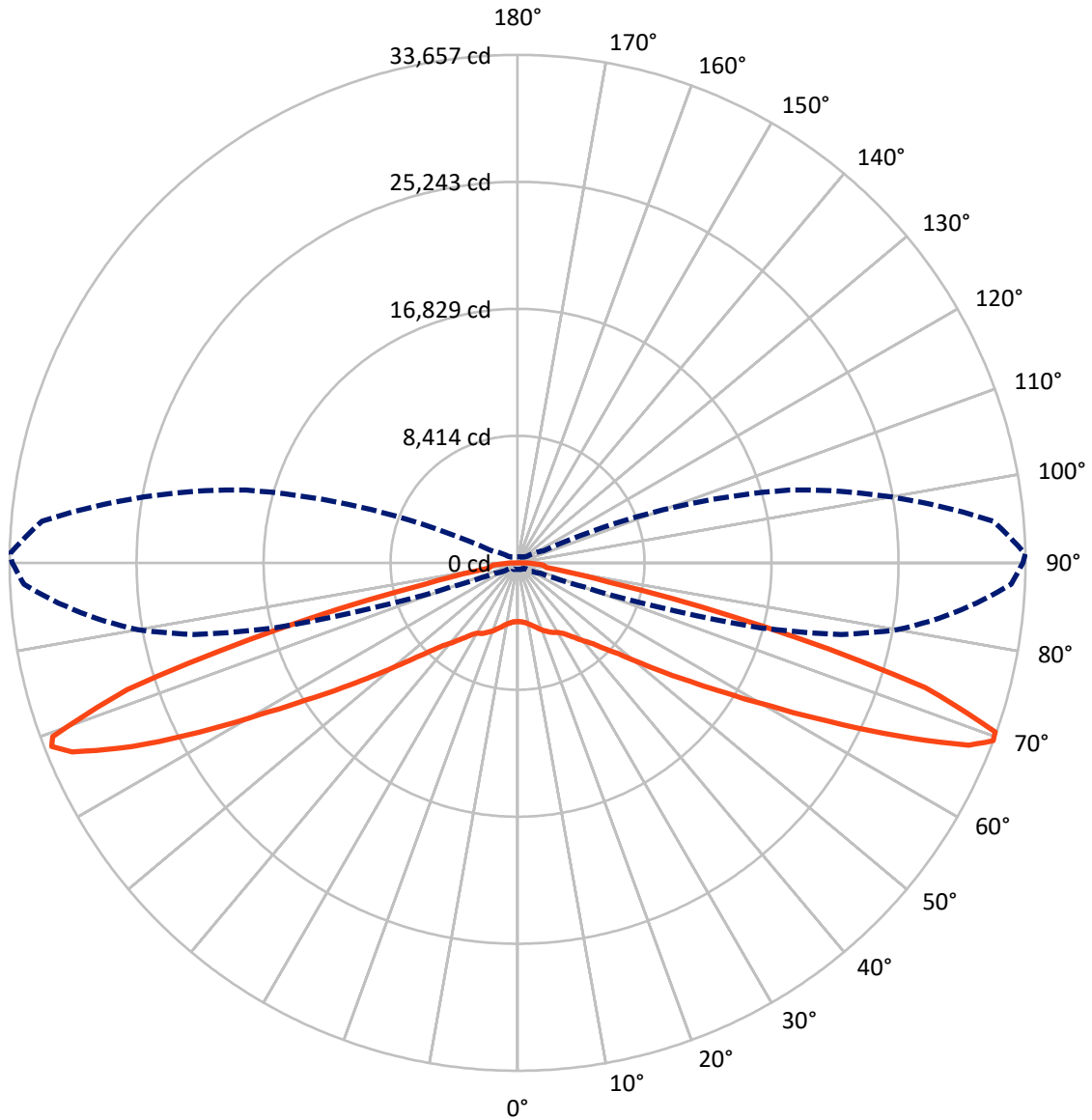
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 fc
 Type I - Short - N/A

REPORT NUMBER: P628120
CATALOG NUMBER: EPH-VN-03-E-730-U-T1

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: EPH-VN-03-E-730-U-T1

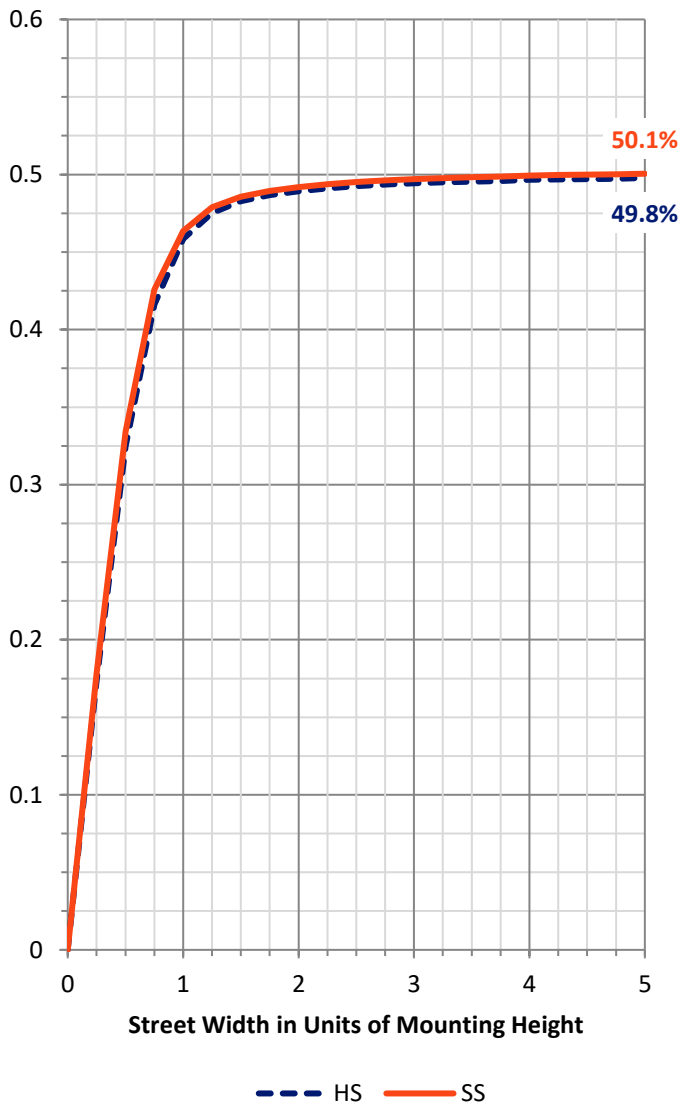
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12498.8	0.0	12498.8
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	12431.7	0.0	12431.7
	% Fixture	49.9	0.0	49.9
Total	Lumens	24930.4	0.0	24930.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.7	1.6
10°-20°	1286.0	5.2
20°-30°	2205.2	8.8
30°-40°	3046.4	12.2
40°-50°	3916.8	15.7
50°-60°	4873.3	19.5
60°-70°	5977.0	24.0
70°-80°	2948.4	11.8
80°-90°	284.4	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°	24930.4	100.0
0°-180°	24930.4	100.0

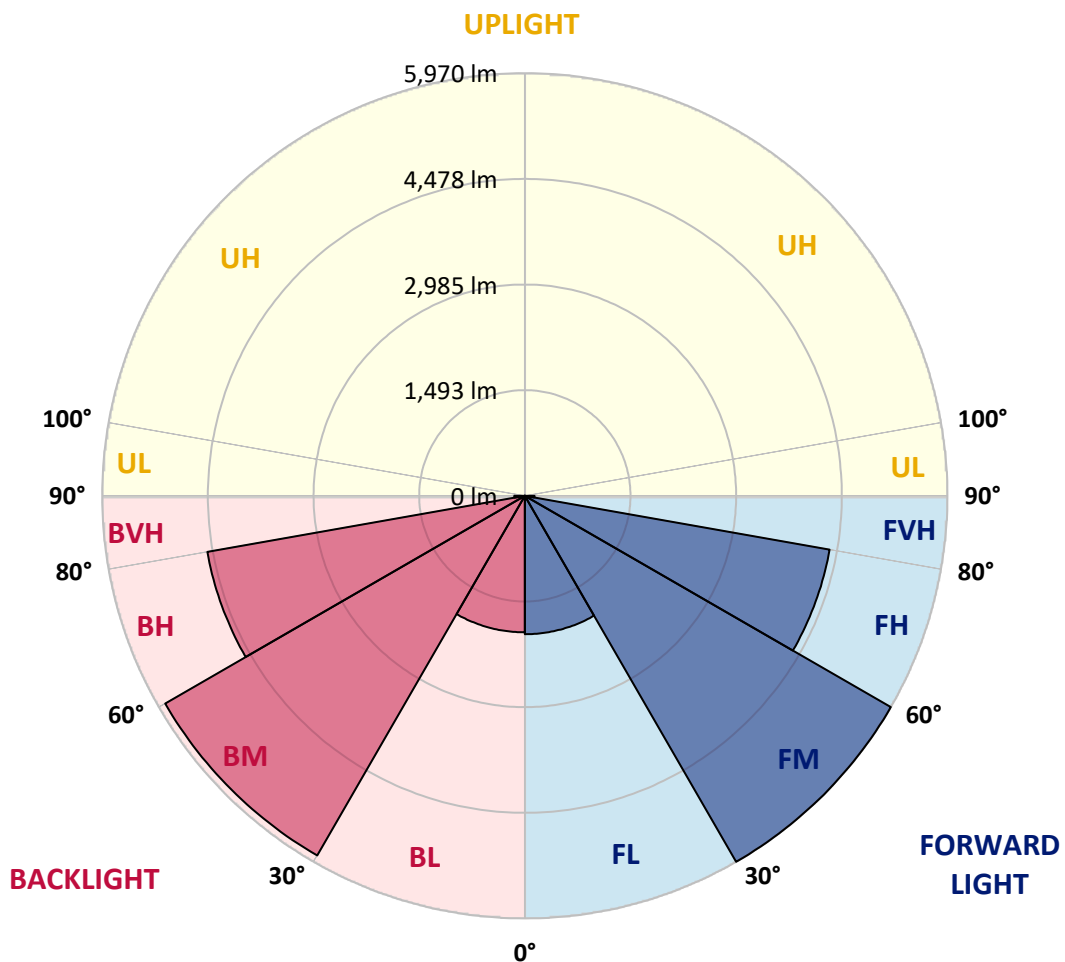


REPORT NUMBER: P628120
 CATALOG NUMBER: EPH-VN-03-E-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1955.0	7.8			
FM (30°-60°)	5970.0	23.9			
FH (60°-80°)	4371.8	17.5			G2/5000
FVH (80°-90°)	134.9	0.5			G2/225
BL (0°-30°)	1929.0	7.7	B3/2500		
BM (30°-60°)	5866.6	23.5	B4/8500		
BH (60°-80°)	4553.7	18.3	B4/5000		G4/5000
BVH (80°-90°)	149.6	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type I Short





REPORT NUMBER: P628120
 CATALOG NUMBER: EPH-VN-03-E-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	70°
0°	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9
2.5°	3945.5	3980.0	3950.8	3964.1	3980.0	3972.1	3966.7	3929.5	3942.8	3926.8
5°	4083.8	4107.7	4089.1	4086.5	4070.5	4067.8	4051.9	3993.3	4019.9	3982.7
7.5°	4203.5	4227.5	4203.5	4211.5	4216.8	4200.9	4187.6	4123.7	4129.0	4105.1
10°	4291.3	4328.6	4302.0	4355.2	4355.2	4376.4	4357.8	4264.7	4267.4	4238.1
12.5°	4349.8	4395.1	4384.4	4472.2	4517.5	4528.1	4549.4	4469.6	4464.2	4408.4
15°	4307.3	4315.3	4371.1	4506.8	4663.8	4738.3	4775.5	4682.4	4687.7	4623.9
17.5°	4171.6	4198.2	4251.4	4488.2	4687.7	4908.5	4983.0	4929.8	4919.2	4847.3
20°	4022.6	4027.9	4115.7	4387.1	4695.7	5012.3	5233.1	5190.5	5187.9	5142.7
22.5°	3836.4	3839.0	3961.4	4262.0	4671.8	5060.2	5456.6	5512.5	5475.2	5432.6
25°	3604.9	3634.2	3777.8	4115.7	4589.3	5110.7	5587.0	5770.5	5757.2	5717.3
27.5°	3386.8	3408.0	3565.0	3908.2	4413.7	5036.2	5775.8	6097.8	6063.2	5999.3
30°	3189.9	3224.5	3386.8	3695.4	4195.5	4943.1	5900.9	6366.5	6406.4	6334.5
32.5°	2977.0	3019.6	3189.9	3509.1	3993.3	4855.3	6007.3	6683.1	6781.5	6699.0
35°	2764.2	2796.1	2966.4	3309.6	3847.0	4661.1	6028.6	7092.8	7215.2	7169.9
37.5°	2578.0	2607.2	2774.9	3102.1	3650.1	4517.5	5980.7	7433.3	7654.1	7776.5
40°	2370.5	2407.7	2572.7	2902.6	3389.4	4304.6	5922.2	7813.8	8130.3	8292.6
42.5°	2139.0	2189.6	2349.2	2689.7	3187.2	4041.2	5746.6	8069.2	8561.3	8848.7
45°	1894.2	1931.5	2104.4	2418.4	2947.8	3735.3	5499.2	8380.4	9024.3	9556.4
47.5°	1598.9	1622.9	1798.5	2128.4	2612.6	3418.7	5185.2	8619.9	9543.0	10210.8
50°	1277.0	1301.0	1442.0	1774.5	2245.4	3024.9	4703.7	8721.0	9907.5	10844.0
52.5°	997.7	1016.3	1128.0	1378.1	1825.1	2575.3	4139.7	8697.0	10139.0	11501.1
55°	776.9	792.8	872.6	1061.5	1399.4	2043.2	3549.0	8258.0	10210.8	11961.4
57.5°	667.8	675.8	713.0	822.1	1072.2	1548.4	2798.8	7486.5	9857.0	12272.7
60°	588.0	590.6	619.9	694.4	830.1	1152.0	2045.9	6254.7	8976.4	12075.8
62.5°	548.1	550.7	566.7	617.2	686.4	870.0	1449.9	4804.8	7414.7	11264.4
65°	513.5	516.1	529.4	561.4	590.6	697.0	1066.8	3168.6	5342.2	9178.6
67.5°	468.2	473.6	486.9	513.5	537.4	580.0	811.4	2043.2	3362.8	6339.9
69°	439.0	444.3	457.6	478.9	500.2	540.1	702.4	1630.9	2538.1	4661.1
70°	417.7	423.0	439.0	460.3	478.9	516.1	646.5	1447.3	2168.3	3793.8
72.5°	364.5	369.8	380.4	401.7	423.0	449.6	521.4	1034.9	1473.9	2330.6
75°	311.3	313.9	321.9	343.2	364.5	385.8	439.0	731.6	979.0	1431.3
77.5°	242.1	244.8	255.4	279.3	292.6	321.9	372.5	508.1	641.2	832.7
80°	175.6	183.6	196.9	218.2	226.1	242.1	287.3	364.5	423.0	510.8
82.5°	119.7	125.0	138.3	157.0	162.3	162.3	204.9	268.7	300.6	332.6
85°	69.2	71.8	69.2	79.8	93.1	95.8	133.0	162.3	186.2	215.5
87.5°	21.3	21.3	21.3	26.6	31.9	34.6	58.5	74.5	93.1	111.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P628120
 CATALOG NUMBER: EPH-VN-03-E-730-U-T1

CANDELA DISTRIBUTION (continued):

72.5°		75°	77.5°	80°	82.5°	85°	87.5°	90°	91°	95°
3910.9	0°	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9
3929.5	2.5°	3918.8	3950.8	3913.5	3910.9	3908.2	3889.6	3902.9	3900.2	3929.5
3998.7	5°	3974.7	3974.7	3953.4	3969.4	3964.1	3902.9	3958.8	3958.8	3988.0
4086.5	7.5°	4054.5	4059.9	4049.2	4041.2	4030.6	3985.4	4019.9	4014.6	4038.6
4248.7	10°	4208.8	4203.5	4155.6	4155.6	4145.0	4097.1	4118.4	4134.3	4179.6
4405.7	12.5°	4376.4	4341.9	4347.2	4328.6	4294.0	4211.5	4243.4	4246.1	4291.3
4626.5	15°	4560.0	4522.8	4506.8	4490.8	4456.3	4379.1	4424.3	4397.7	4429.7
4828.7	17.5°	4807.4	4759.6	4703.7	4661.1	4610.6	4549.4	4570.7	4591.9	4613.2
5092.1	20°	5081.5	5004.3	4940.5	4871.3	4828.7	4751.6	4778.2	4780.8	4804.8
5368.8	22.5°	5299.6	5233.1	5161.3	5110.7	5022.9	4945.8	4916.5	4921.8	4964.4
5653.5	25°	5584.3	5464.6	5392.7	5310.3	5233.1	5100.1	5086.8	5092.1	5161.3
5972.7	27.5°	5831.7	5733.3	5613.6	5488.5	5376.8	5270.4	5254.4	5235.8	5318.2
6265.4	30°	6153.6	6007.3	5815.8	5696.0	5509.8	5360.8	5339.5	5358.2	5406.0
6693.7	32.5°	6499.5	6345.2	6143.0	5988.7	5762.5	5589.6	5565.7	5584.3	5672.1
7135.3	35°	7007.6	6840.0	6595.3	6358.5	6143.0	5954.1	5940.8	5911.5	6028.6
7741.9	37.5°	7616.9	7393.4	7161.9	6898.6	6669.8	6403.7	6326.6	6350.5	6446.3
8329.9	40°	8303.3	8090.4	7800.5	7499.8	7220.5	6938.5	6826.7	6810.8	6978.4
9096.1	42.5°	9096.1	8949.8	8526.8	8170.3	7803.1	7449.3	7316.2	7324.2	7478.5
9950.1	45°	10021.9	9912.9	9537.7	9090.8	8659.8	8210.2	8122.4	8127.7	8335.2
10721.6	47.5°	11115.4	11184.5	10830.7	10359.8	9827.7	9285.0	9072.1	9018.9	9250.4
11682.1	50°	12222.1	12658.4	12392.4	11942.8	11314.9	10673.7	10399.7	10303.9	10636.5
12634.5	52.5°	13517.8	14220.1	14302.6	13956.7	13251.7	12355.1	12051.9	11953.4	12376.4
13594.9	55°	14861.3	15933.5	16335.2	16383.1	15542.4	14558.0	13986.0	13871.6	14534.1
14435.6	57.5°	16218.1	17838.3	18660.4	19147.3	18442.3	17162.6	16348.5	16226.1	17399.4
15106.1	60°	17612.2	19809.7	21129.3	22358.5	21951.4	20530.7	19272.3	19277.6	20884.6
15393.4	62.5°	18631.2	21395.4	23497.1	25479.2	25846.3	24856.6	23263.0	23100.7	24800.8
14536.7	65°	19173.9	22893.2	25473.8	27825.7	29105.4	29057.5	27759.2	27615.5	28865.9
12057.2	67.5°	18362.5	22949.1	26184.2	28525.4	30871.9	32167.5	32002.6	32250.0	31515.7
9553.7	69°	16633.2	21962.0	25551.0	28168.9	30539.4	32728.9	33476.5	33657.4	31635.5
7906.9	70°	14733.6	20735.6	24494.8	27022.2	29198.5	31920.1	33521.7	33577.6	30576.6
4453.6	72.5°	9194.5	15542.4	19240.4	21656.1	23004.9	25582.9	28280.6	28235.4	24188.8
2490.2	75°	4828.7	8955.1	11969.4	13195.9	13951.4	15276.3	17101.4	16872.6	14539.4
1274.4	77.5°	2149.6	3804.4	4850.0	5544.4	5738.6	6124.4	6305.3	6156.3	5845.0
686.4	80°	1042.9	1575.0	2048.5	2165.6	2027.3	1931.5	1976.7	1955.4	2139.0
396.4	82.5°	518.8	723.6	816.8	979.0	1442.0	1771.9	1822.4	1801.1	1614.9
239.4	85°	276.7	332.6	383.1	702.4	1290.3	1617.6	1665.4	1657.5	1492.5
130.4	87.5°	154.3	191.6	276.7	561.4	779.5	824.7	870.0	843.4	867.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P628120

CATALOG NUMBER: EPH-VN-03-E-730-U-T1

CANDELA DISTRIBUTION (continued):

105°	115°		125°	135°	145°	155°	165°	175°	180°
3910.9	3910.9	0°	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9	3910.9
3921.5	3956.1	2.5°	3934.8	3956.1	3966.7	3926.8	3950.8	3929.5	3934.8
3982.7	4027.9	5°	4001.3	4051.9	4043.9	4043.9	4049.2	4017.3	4030.6
4038.6	4105.1	7.5°	4134.3	4153.0	4195.5	4179.6	4163.6	4131.7	4137.0
4190.2	4254.1	10°	4315.3	4315.3	4341.9	4315.3	4264.7	4243.4	4238.1
4344.5	4464.2	12.5°	4490.8	4464.2	4480.2	4403.1	4344.5	4302.0	4323.2
4482.9	4621.2	15°	4647.8	4642.5	4584.0	4485.5	4341.9	4264.7	4270.0
4722.3	4844.7	17.5°	4881.9	4834.0	4679.7	4424.3	4246.1	4171.6	4134.3
4945.8	5086.8	20°	5113.4	4980.4	4669.1	4325.9	4089.1	3966.7	3969.4
5134.7	5336.9	22.5°	5315.6	5036.2	4631.9	4200.9	3945.5	3780.5	3777.8
5400.7	5597.6	25°	5509.8	5004.3	4557.4	4086.5	3785.8	3626.2	3604.9
5634.8	5890.2	27.5°	5661.4	4975.0	4376.4	3902.9	3567.7	3437.3	3424.0
5847.7	6212.2	30°	5757.2	4911.2	4214.2	3687.4	3365.5	3237.8	3232.5
6238.8	6486.2	32.5°	5866.3	4812.8	4001.3	3495.8	3187.2	3048.9	3040.9
6699.0	6890.6	35°	5967.4	4663.8	3828.4	3314.9	3001.0	2838.7	2814.8
7260.4	7348.2	37.5°	5988.7	4498.8	3612.9	3099.4	2769.5	2612.6	2609.9
7976.0	7744.6	40°	5991.3	4299.3	3384.1	2883.9	2543.4	2383.8	2373.1
8750.2	8079.8	42.5°	5884.9	4070.5	3155.3	2628.5	2309.3	2120.4	2107.1
9673.4	8489.5	45°	5640.2	3796.5	2862.6	2346.5	2051.2	1875.6	1854.3
10764.2	8859.3	47.5°	5312.9	3453.3	2567.3	2059.2	1758.6	1598.9	1585.6
11953.4	9098.8	50°	4871.3	3067.5	2210.8	1747.9	1463.2	1332.9	1301.0
13342.2	9130.7	52.5°	4323.2	2625.9	1838.4	1423.3	1191.9	1077.5	1058.9
14858.6	8864.6	55°	3668.8	2149.6	1468.6	1136.0	925.8	838.0	822.1
16260.7	8191.5	57.5°	2939.8	1654.8	1130.7	877.9	742.3	681.1	662.5
17819.7	6938.5	60°	2197.5	1247.8	867.3	697.0	606.6	564.0	556.0
19211.1	5390.1	62.5°	1580.3	939.1	681.1	582.6	532.1	510.8	505.5
19996.0	3620.9	65°	1162.6	723.6	566.7	526.8	489.5	470.9	462.9
19862.9	2370.5	67.5°	864.6	580.0	502.8	478.9	452.3	433.7	428.3
18615.2	1888.9	69°	729.0	524.1	470.9	447.0	423.0	407.0	399.1
17136.0	1606.9	70°	659.8	494.8	454.9	431.0	404.4	391.1	383.1
11495.8	1080.1	72.5°	518.8	428.3	404.4	377.8	359.2	343.2	340.5
6039.2	763.6	75°	428.3	367.1	348.5	327.2	308.6	292.6	292.6
2631.2	548.1	77.5°	359.2	303.3	287.3	266.0	247.4	231.5	228.8
1263.7	396.4	80°	279.3	231.5	220.8	212.8	191.6	167.6	164.9
667.8	284.7	82.5°	199.5	157.0	154.3	149.0	130.4	117.1	111.7
361.8	170.3	85°	125.0	90.5	82.5	71.8	63.9	63.9	63.9
175.6	74.5	87.5°	47.9	26.6	26.6	21.3	16.0	16.0	16.0
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)