

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: P628136

Luminaire Tested: **EPH-VN-08-D-740-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628136
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-740-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56584 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

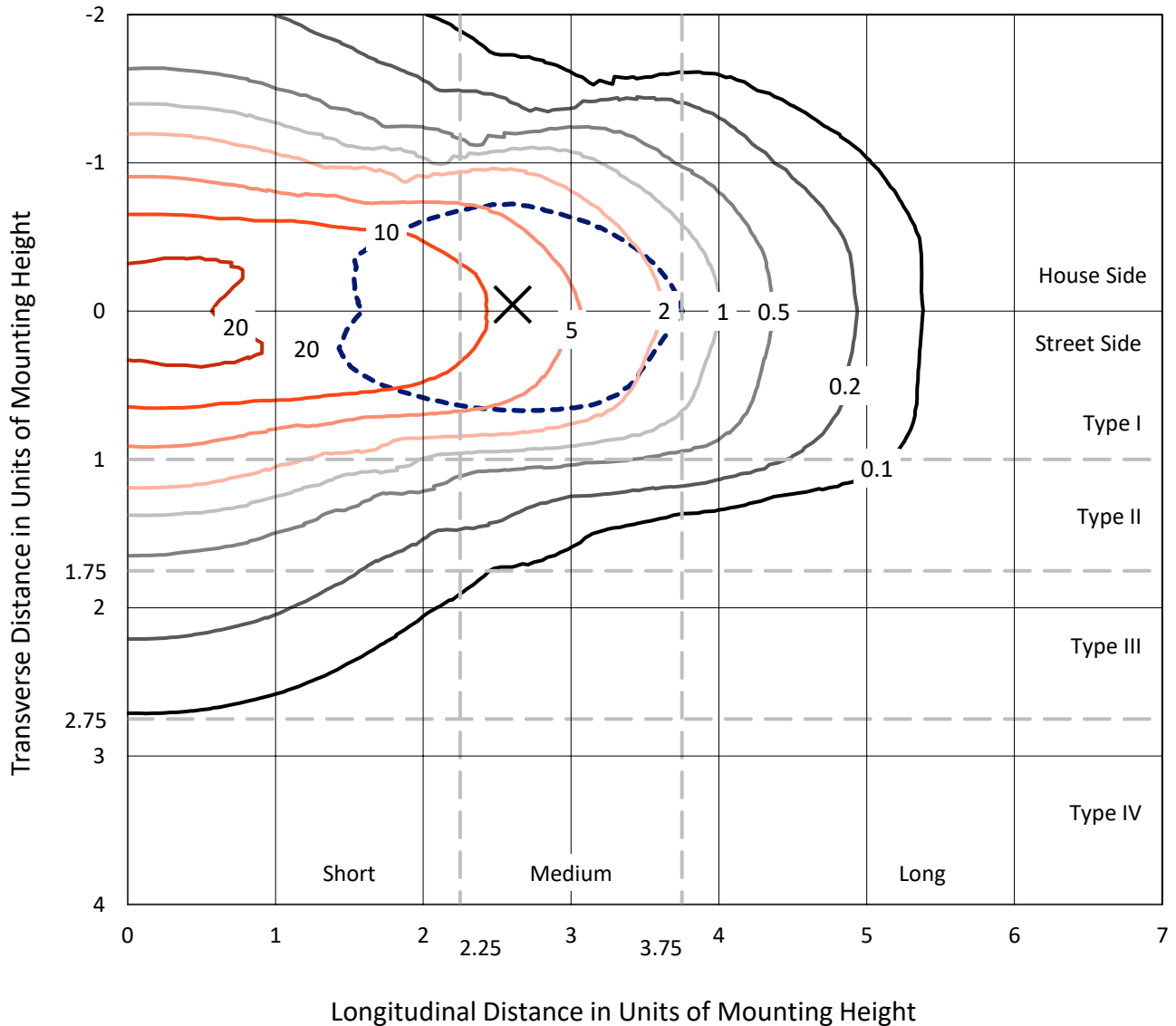
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P628136
 CATALOG NUMBER: EPH-VN-08-D-740-U-T1

Iso-Footcandle Lines of Horizontal Illumination

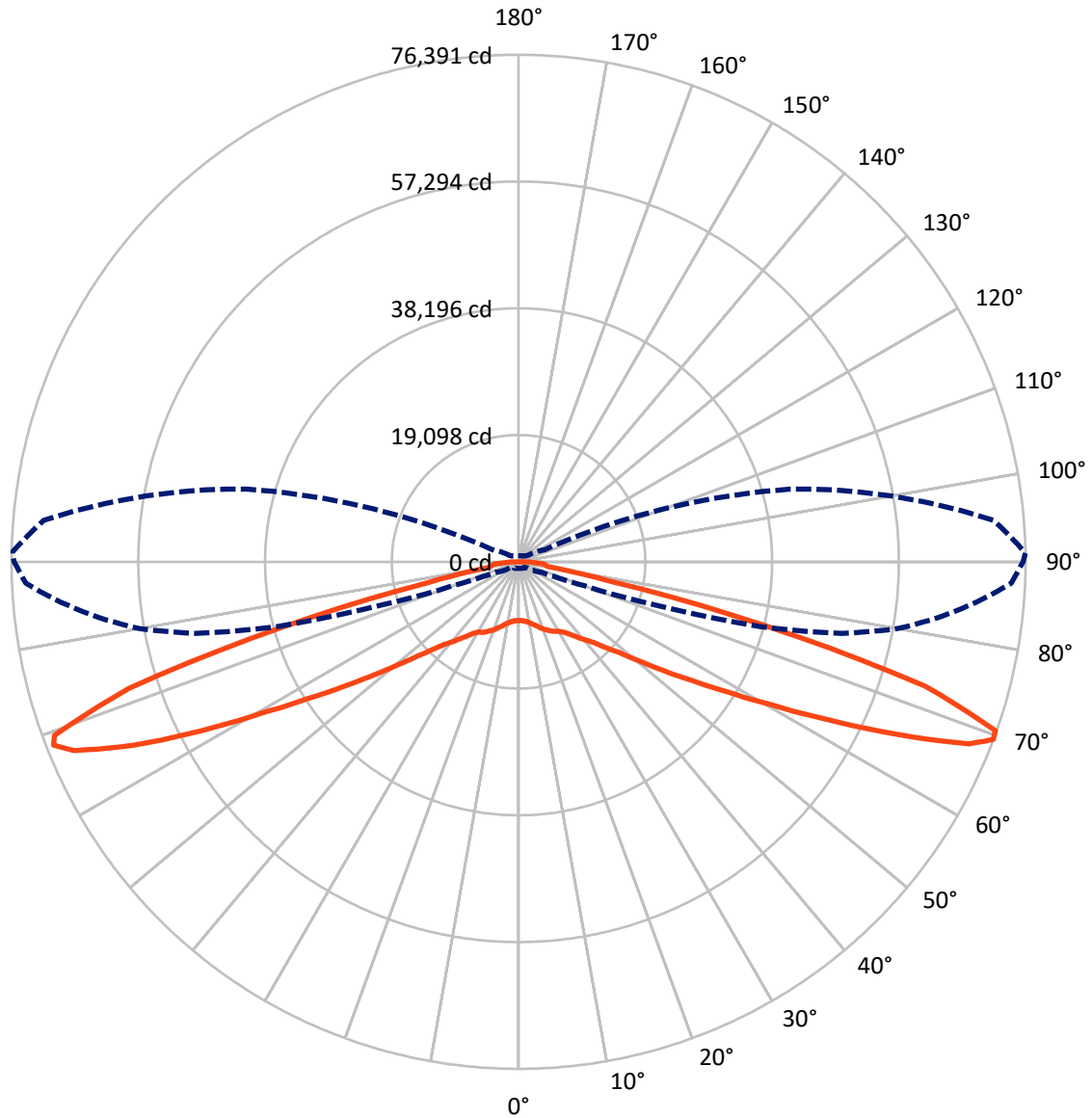
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.1 fc
 Type I - Short - N/A

REPORT NUMBER: P628136
CATALOG NUMBER: EPH-VN-08-D-740-U-T1

Luminous Intensity Polar Plot



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

REPORT NUMBER: P628136
 CATALOG NUMBER: EPH-VN-08-D-740-U-T1

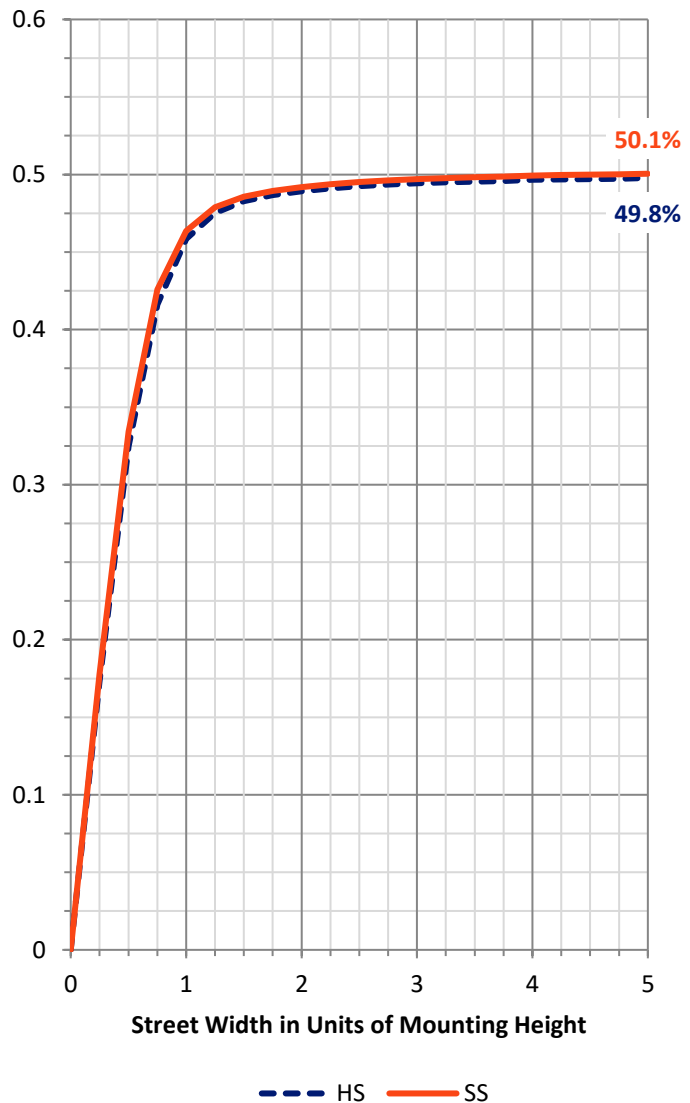
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28368.2	0.0	28368.2
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	28215.8	0.0	28215.8
	% Fixture	49.9	0.0	49.9
Total	Lumens	56584.0	0.0	56584.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	891.4	1.6
10°-20°	2918.7	5.2
20°-30°	5005.2	8.8
30°-40°	6914.4	12.2
40°-50°	8890.0	15.7
50°-60°	11060.9	19.5
60°-70°	13565.9	24.0
70°-80°	6692.0	11.8
80°-90°	645.5	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°	56584.0	100.0
0°-180°	56584.0	100.0

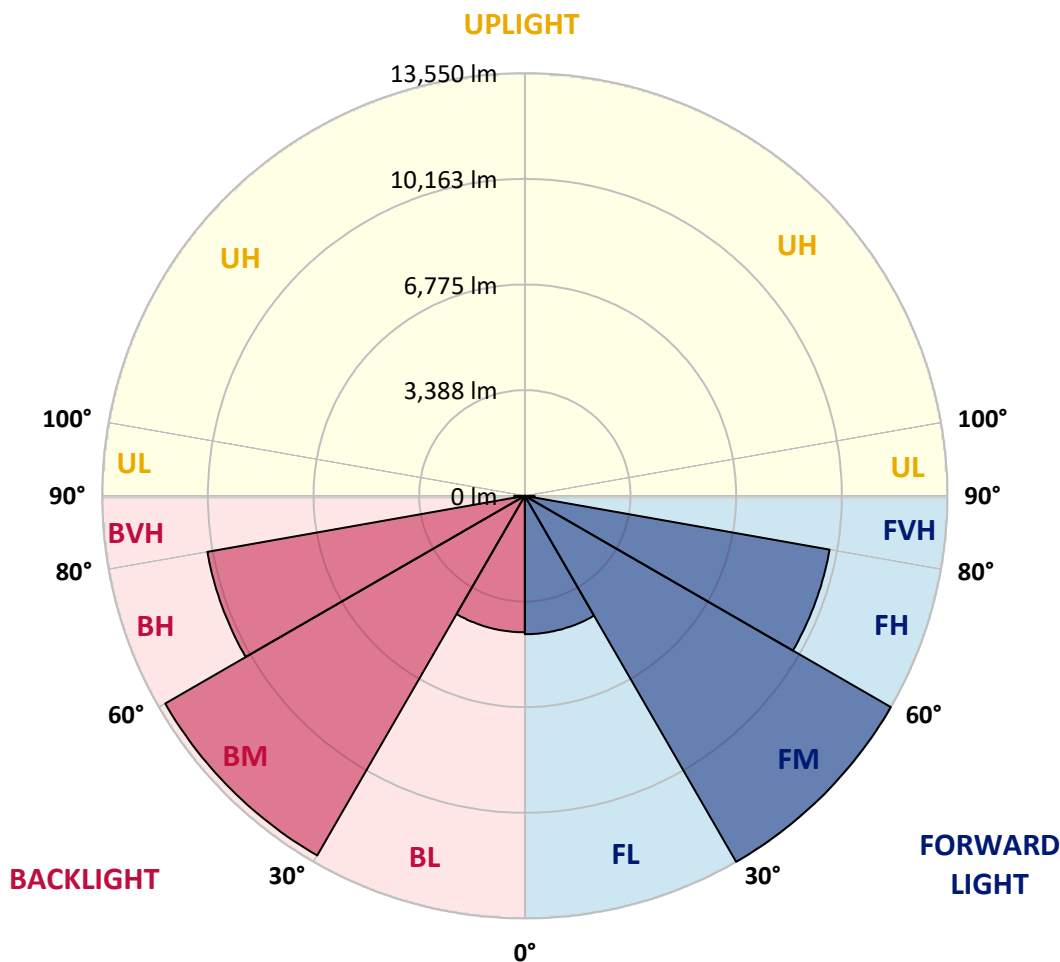


REPORT NUMBER: P628136
 CATALOG NUMBER: EPH-VN-08-D-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4437.2	7.8			
FM (30°-60°)	13550.0	23.9			
FH (60°-80°)	9922.5	17.5			G4/12000
FVH (80°-90°)	306.1	0.5			G3/500
BL (0°-30°)	4378.1	7.7	B4/5000		
BM (30°-60°)	13315.2	23.5	B5		
BH (60°-80°)	10335.4	18.3	B5		G5
BVH (80°-90°)	339.4	0.6			G3/500
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: P628136
 CATALOG NUMBER: EPH-VN-08-D-740-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	70°
0°	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4
2.5°	8954.9	9033.4	8967.0	8997.2	9033.4	9015.3	9003.2	8918.7	8948.9	8912.6
5°	9268.9	9323.2	9281.0	9274.9	9238.7	9232.7	9196.4	9063.6	9124.0	9039.4
7.5°	9540.6	9595.0	9540.6	9558.7	9570.8	9534.6	9504.4	9359.5	9371.6	9317.2
10°	9739.9	9824.4	9764.0	9884.8	9884.8	9933.1	9890.9	9679.5	9685.5	9619.1
12.5°	9872.7	9975.4	9951.2	10150.5	10253.2	10277.3	10325.6	10144.5	10132.4	10005.6
15°	9776.1	9794.2	9921.0	10229.0	10585.3	10754.3	10838.9	10627.5	10639.6	10494.7
17.5°	9468.2	9528.6	9649.3	10186.7	10639.6	11140.8	11309.9	11189.1	11164.9	11001.9
20°	9130.0	9142.1	9341.4	9957.3	10657.7	11376.3	11877.5	11780.9	11774.8	11672.2
22.5°	8707.3	8713.4	8991.1	9673.5	10603.4	11485.0	12384.7	12511.5	12427.0	12330.4
25°	8182.0	8248.4	8574.5	9341.4	10416.2	11599.7	12680.6	13097.2	13067.0	12976.5
27.5°	7686.8	7735.2	8091.4	8870.4	10017.7	11430.6	13109.3	13839.9	13761.4	13616.5
30°	7240.0	7318.5	7686.8	8387.3	9522.5	11219.3	13393.1	14449.8	14540.4	14377.4
32.5°	6756.9	6853.6	7240.0	7964.6	9063.6	11020.0	13634.6	15168.4	15391.8	15204.6
35°	6273.9	6346.3	6732.8	7511.7	8731.5	10579.2	13682.9	16098.3	16376.1	16273.4
37.5°	5851.2	5917.6	6298.0	7040.7	8284.6	10253.2	13574.3	16871.2	17372.4	17650.2
40°	5380.2	5464.7	5839.1	6587.9	7692.9	9770.1	13441.4	17734.7	18453.3	18821.6
42.5°	4854.9	4969.6	5331.9	6104.8	7234.0	9172.3	13042.9	18314.4	19431.5	20083.6
45°	4299.3	4383.9	4776.4	5488.9	6690.5	8477.9	12481.3	19020.9	20482.2	21689.8
47.5°	3629.1	3683.4	4081.9	4830.7	5929.7	7759.3	11768.8	19564.3	21659.6	23175.3
50°	2898.4	2952.8	3272.8	4027.6	5096.4	6865.6	10675.8	19793.8	22486.9	24612.4
52.5°	2264.4	2306.7	2560.3	3127.9	4142.3	5845.1	9395.7	19739.4	23012.2	26103.9
55°	1763.2	1799.4	1980.6	2409.3	3176.2	4637.5	8055.2	18743.1	23175.3	27148.5
57.5°	1515.6	1533.7	1618.3	1865.9	2433.5	3514.3	6352.4	16992.0	22372.2	27855.0
60°	1334.5	1340.5	1406.9	1576.0	1884.0	2614.6	4643.5	14196.2	20373.5	27408.2
62.5°	1243.9	1249.9	1286.2	1400.9	1557.9	1974.5	3290.9	10905.3	16828.9	25566.5
65°	1165.4	1171.4	1201.6	1274.1	1340.5	1582.1	2421.4	7191.7	12125.0	20832.4
67.5°	1062.8	1074.8	1105.0	1165.4	1219.8	1316.4	1841.7	4637.5	7632.5	14389.4
69°	996.3	1008.4	1038.6	1086.9	1135.2	1225.8	1594.1	3701.5	5760.6	10579.2
70°	948.0	960.1	996.3	1044.6	1086.9	1171.4	1467.3	3284.9	4921.3	8610.7
72.5°	827.3	839.3	863.5	911.8	960.1	1020.5	1183.5	2348.9	3345.3	5289.6
75°	706.5	712.5	730.6	778.9	827.3	875.6	996.3	1660.6	2222.1	3248.6
77.5°	549.5	555.5	579.7	634.0	664.2	730.6	845.4	1153.3	1455.2	1890.0
80°	398.5	416.6	446.8	495.1	513.3	549.5	652.1	827.3	960.1	1159.4
82.5°	271.7	283.8	314.0	356.3	368.3	368.3	465.0	609.9	682.3	754.8
85°	157.0	163.0	157.0	181.2	211.3	217.4	301.9	368.3	422.7	489.1
87.5°	48.3	48.3	48.3	60.4	72.5	78.5	132.8	169.1	211.3	253.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P628136
 CATALOG NUMBER: EPH-VN-08-D-740-U-T1

CANDELA DISTRIBUTION (continued):

72.5°		75°	77.5°	80°	82.5°	85°	87.5°	90°	91°	95°
8876.4	0°	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4
8918.7	2.5°	8894.5	8967.0	8882.4	8876.4	8870.4	8828.1	8858.3	8852.3	8918.7
9075.7	5°	9021.3	9021.3	8973.0	9009.3	8997.2	8858.3	8985.1	8985.1	9051.5
9274.9	7.5°	9202.5	9214.6	9190.4	9172.3	9148.1	9045.5	9124.0	9111.9	9166.2
9643.3	10°	9552.7	9540.6	9431.9	9431.9	9407.8	9299.1	9347.4	9383.6	9486.3
9999.5	12.5°	9933.1	9854.6	9866.7	9824.4	9745.9	9558.7	9631.2	9637.2	9739.9
10500.7	15°	10349.8	10265.2	10229.0	10192.8	10114.3	9939.2	10041.8	9981.4	10053.9
10959.6	17.5°	10911.3	10802.6	10675.8	10579.2	10464.5	10325.6	10373.9	10422.2	10470.5
11557.4	20°	11533.3	11358.2	11213.3	11056.3	10959.6	10784.5	10844.9	10851.0	10905.3
12185.4	22.5°	12028.4	11877.5	11714.4	11599.7	11400.4	11225.3	11158.9	11171.0	11267.6
12831.5	25°	12674.5	12402.8	12239.8	12052.6	11877.5	11575.6	11545.4	11557.4	11714.4
13556.1	27.5°	13236.1	13012.7	12741.0	12457.2	12203.5	11962.0	11925.8	11883.5	12070.7
14220.4	30°	13966.8	13634.6	13199.9	12928.2	12505.5	12167.3	12119.0	12161.3	12270.0
15192.5	32.5°	14751.7	14401.5	13942.6	13592.4	13079.1	12686.6	12632.3	12674.5	12873.8
16194.9	35°	15905.1	15524.7	14969.1	14431.7	13942.6	13513.9	13483.7	13417.3	13682.9
17571.7	37.5°	17287.9	16780.6	16255.3	15657.5	15138.2	14534.4	14359.2	14413.6	14631.0
18906.1	40°	18845.8	18362.7	17704.5	17022.2	16388.1	15748.1	15494.5	15458.2	15838.6
20645.2	42.5°	20645.2	20313.1	19353.0	18543.8	17710.5	16907.4	16605.5	16623.6	16973.9
22583.5	45°	22746.5	22499.0	21647.6	20633.1	19654.9	18634.4	18435.1	18447.2	18918.2
24334.6	47.5°	25228.3	25385.3	24582.2	23513.4	22305.7	21073.9	20590.8	20470.1	20995.4
26514.5	50°	27740.3	28730.6	28126.7	27106.2	25681.2	24225.9	23604.0	23386.6	24141.4
28676.2	52.5°	30681.0	32275.1	32462.3	31677.3	30077.1	28042.2	27353.8	27130.4	28090.5
30856.1	55°	33730.3	36163.8	37075.6	37184.3	35276.2	33042.0	31743.7	31484.1	32987.6
32764.2	57.5°	36809.9	40487.3	42353.1	43458.2	41858.0	38953.5	37105.8	36828.0	39490.9
34285.9	60°	39974.0	44961.7	47956.7	50746.5	49822.6	46598.1	43742.0	43754.0	47401.2
34938.0	62.5°	42286.7	48560.6	53330.9	57829.5	58662.8	56416.5	52799.5	52431.2	56289.7
32993.7	65°	43518.5	51960.2	57817.4	63155.3	66059.8	65951.1	63004.4	62678.3	65516.3
27365.9	67.5°	41676.8	52087.0	59429.7	64743.4	70069.3	73009.9	72635.6	73197.1	71530.5
21683.8	69°	37751.9	49846.8	57992.5	63934.3	69314.5	74284.0	75980.8	76391.4	71802.3
17946.0	70°	33440.5	47063.1	55595.3	61331.7	66271.1	72448.4	76083.5	76210.3	69399.0
10108.2	72.5°	20868.6	35276.2	43669.5	49152.3	52213.8	58065.0	64187.9	64085.2	54900.9
5651.9	75°	10959.6	20325.2	27166.6	29950.3	31665.2	34672.3	38814.7	38295.4	32999.7
2892.4	77.5°	4879.0	8634.9	11008.0	12584.0	13024.8	13900.3	14310.9	13972.8	13266.3
1557.9	80°	2367.0	3574.7	4649.5	4915.2	4601.2	4383.9	4486.5	4438.2	4854.9
899.7	82.5°	1177.5	1642.4	1853.8	2222.1	3272.8	4021.6	4136.3	4088.0	3665.3
543.5	85°	628.0	754.8	869.5	1594.1	2928.6	3671.3	3780.0	3761.9	3387.5
295.9	87.5°	350.2	434.8	628.0	1274.1	1769.2	1871.9	1974.5	1914.2	1968.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P628136

CATALOG NUMBER: EPH-VN-08-D-740-U-T1

CANDELA DISTRIBUTION (continued):

105°	115°		125°	135°	145°	155°	165°	175°	180°
8876.4	8876.4	0°	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4	8876.4
8900.6	8979.1	2.5°	8930.8	8979.1	9003.2	8912.6	8967.0	8918.7	8930.8
9039.4	9142.1	5°	9081.7	9196.4	9178.3	9178.3	9190.4	9117.9	9148.1
9166.2	9317.2	7.5°	9383.6	9425.9	9522.5	9486.3	9450.1	9377.6	9389.7
9510.4	9655.4	10°	9794.2	9794.2	9854.6	9794.2	9679.5	9631.2	9619.1
9860.7	10132.4	12.5°	10192.8	10132.4	10168.6	9993.5	9860.7	9764.0	9812.4
10174.7	10488.7	15°	10549.0	10537.0	10404.1	10180.7	9854.6	9679.5	9691.6
10718.1	10995.9	17.5°	11080.4	10971.7	10621.5	10041.8	9637.2	9468.2	9383.6
11225.3	11545.4	20°	11605.7	11303.8	10597.3	9818.4	9281.0	9003.2	9009.3
11654.1	12113.0	22.5°	12064.7	11430.6	10512.8	9534.6	8954.9	8580.5	8574.5
12257.9	12704.7	25°	12505.5	11358.2	10343.7	9274.9	8592.6	8230.3	8182.0
12789.3	13369.0	27.5°	12849.7	11291.8	9933.1	8858.3	8097.5	7801.6	7771.4
13272.3	14099.6	30°	13067.0	11146.8	9564.8	8369.2	7638.5	7348.7	7336.6
14160.0	14721.5	32.5°	13314.6	10923.4	9081.7	7934.4	7234.0	6920.0	6901.9
15204.6	15639.4	35°	13544.1	10585.3	8689.2	7523.8	6811.3	6442.9	6388.6
16478.7	16678.0	37.5°	13592.4	10210.9	8200.1	7034.7	6285.9	5929.7	5923.6
18103.0	17577.7	40°	13598.4	9758.0	7680.8	6545.6	5772.7	5410.4	5386.2
19860.2	18338.5	42.5°	13356.9	9238.7	7161.5	5965.9	5241.3	4812.6	4782.4
21955.5	19268.4	45°	12801.3	8616.8	6497.3	5325.8	4655.6	4257.1	4208.7
24431.3	20107.8	47.5°	12058.6	7837.8	5827.0	4673.7	3991.4	3629.1	3598.9
27130.4	20651.2	50°	11056.3	6962.2	5017.9	3967.2	3321.1	3025.2	2952.8
30282.4	20723.7	52.5°	9812.4	5959.9	4172.5	3230.5	2705.2	2445.5	2403.3
33724.3	20119.9	55°	8326.9	4879.0	3333.2	2578.4	2101.4	1902.1	1865.9
36906.5	18592.1	57.5°	6672.4	3755.9	2566.3	1992.7	1684.7	1545.8	1503.6
40445.0	15748.1	60°	4987.7	2832.0	1968.5	1582.1	1376.7	1280.1	1262.0
43603.1	12233.7	62.5°	3586.8	2131.5	1545.8	1322.4	1207.7	1159.4	1147.3
45384.4	8218.2	65°	2638.8	1642.4	1286.2	1195.6	1111.1	1068.8	1050.7
45082.5	5380.2	67.5°	1962.5	1316.4	1141.3	1086.9	1026.5	984.3	972.2
42250.5	4287.2	69°	1654.5	1189.6	1068.8	1014.4	960.1	923.9	905.8
38893.2	3647.2	70°	1497.5	1123.1	1032.6	978.2	917.8	887.6	869.5
26091.8	2451.6	72.5°	1177.5	972.2	917.8	857.4	815.2	778.9	772.9
13707.1	1733.0	75°	972.2	833.3	791.0	742.7	700.5	664.2	664.2
5971.9	1243.9	77.5°	815.2	688.4	652.1	603.8	561.6	525.3	519.3
2868.2	899.7	80°	634.0	525.3	501.2	483.1	434.8	380.4	374.4
1515.6	646.1	82.5°	452.9	356.3	350.2	338.1	295.9	265.7	253.6
821.2	386.5	85°	283.8	205.3	187.2	163.0	144.9	144.9	144.9
398.5	169.1	87.5°	108.7	60.4	60.4	48.3	36.2	36.2	36.2
0.0	0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)