

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: P977470

Luminaire Tested: **EPH-VN-08-E-750-U-5MQ**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977470
Test Lab: INNOVATION CENTER(G2)
Issue Date: 03/26/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-750-U-5MQ
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69723.9 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

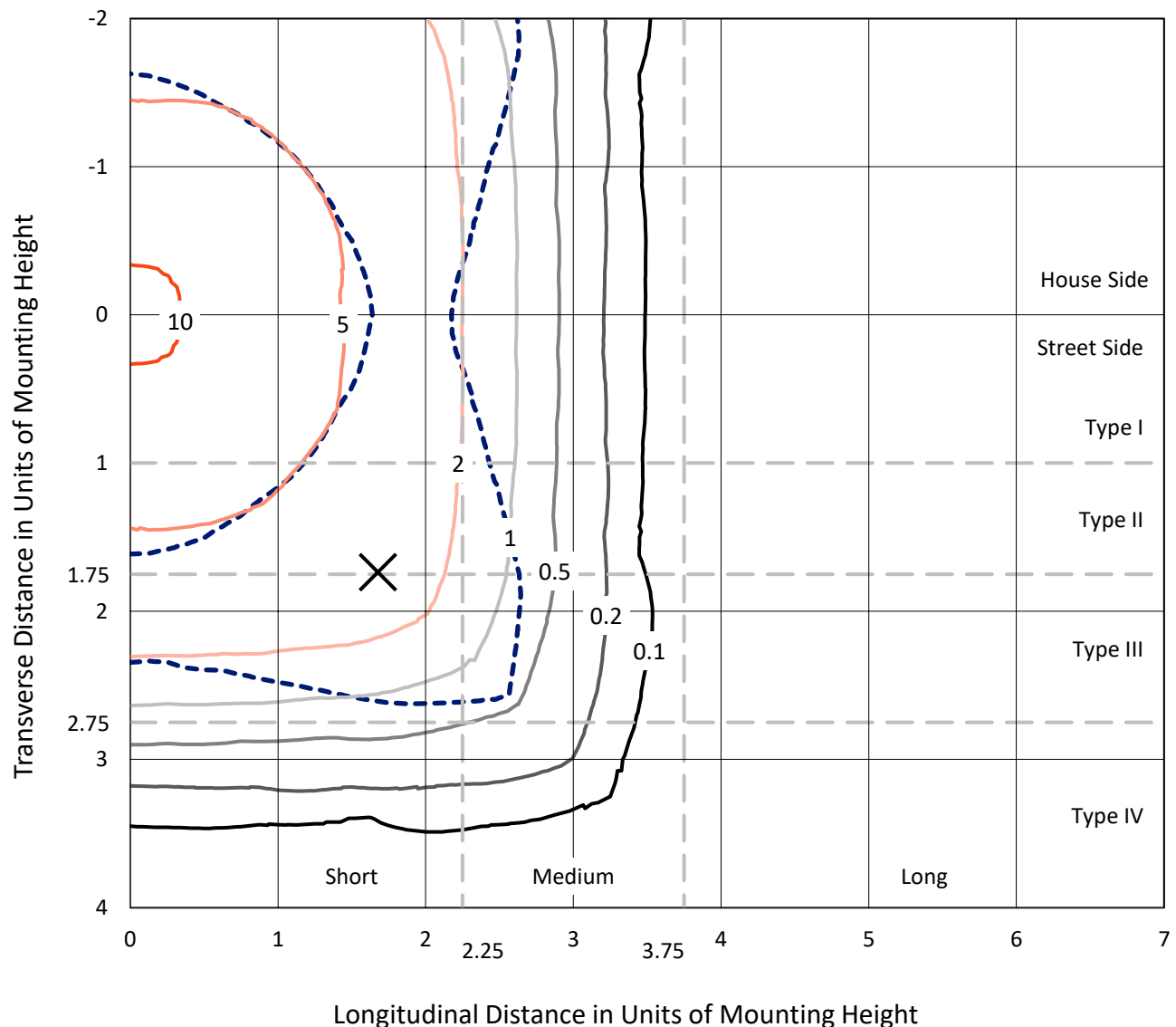
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P977470

CATALOG NUMBER: EPH-VN-08-E-750-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

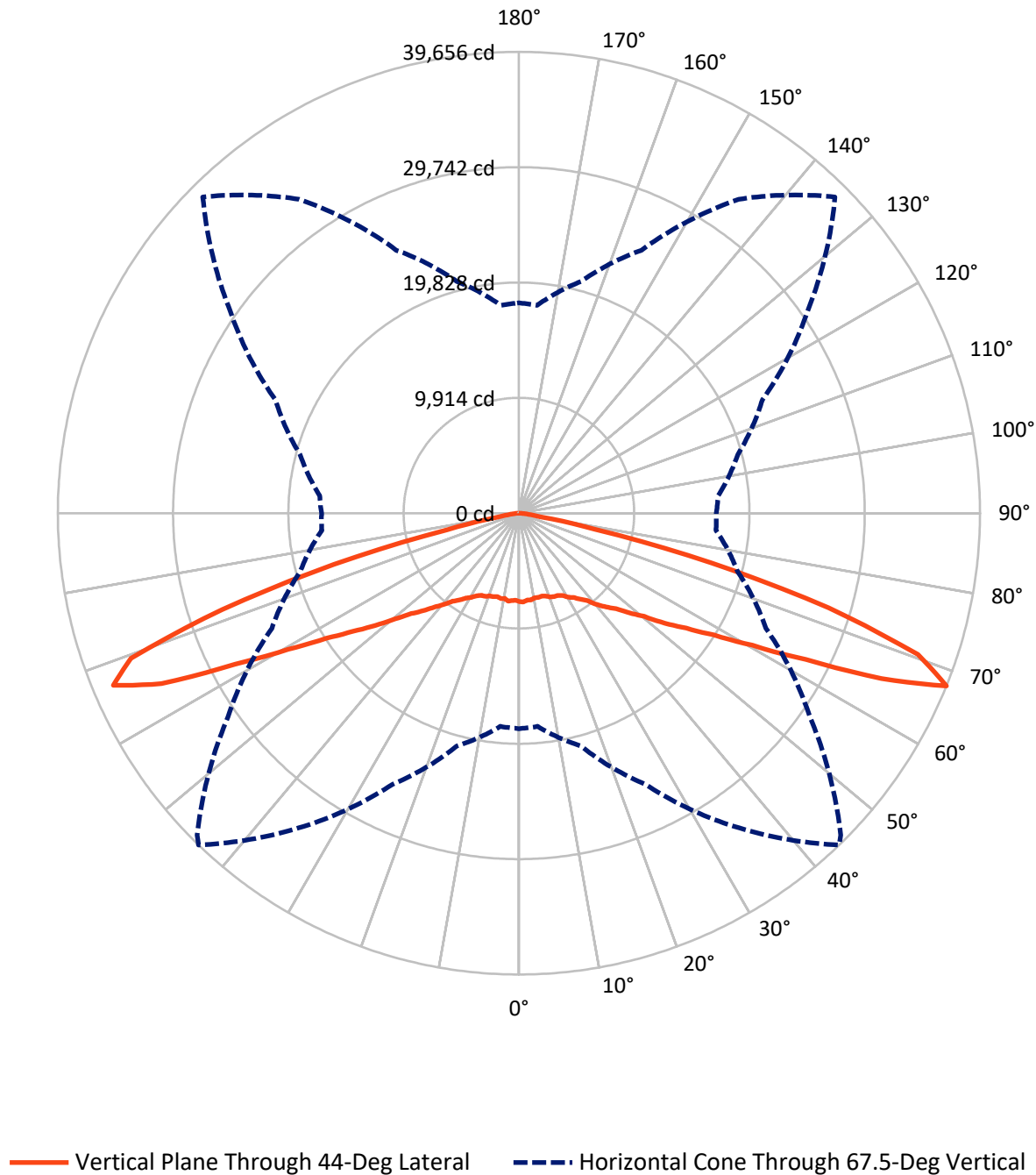
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type V - Short - N/A

REPORT NUMBER: P977470
CATALOG NUMBER: EPH-VN-08-E-750-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P977470

CATALOG NUMBER: EPH-VN-08-E-750-U-5MQ

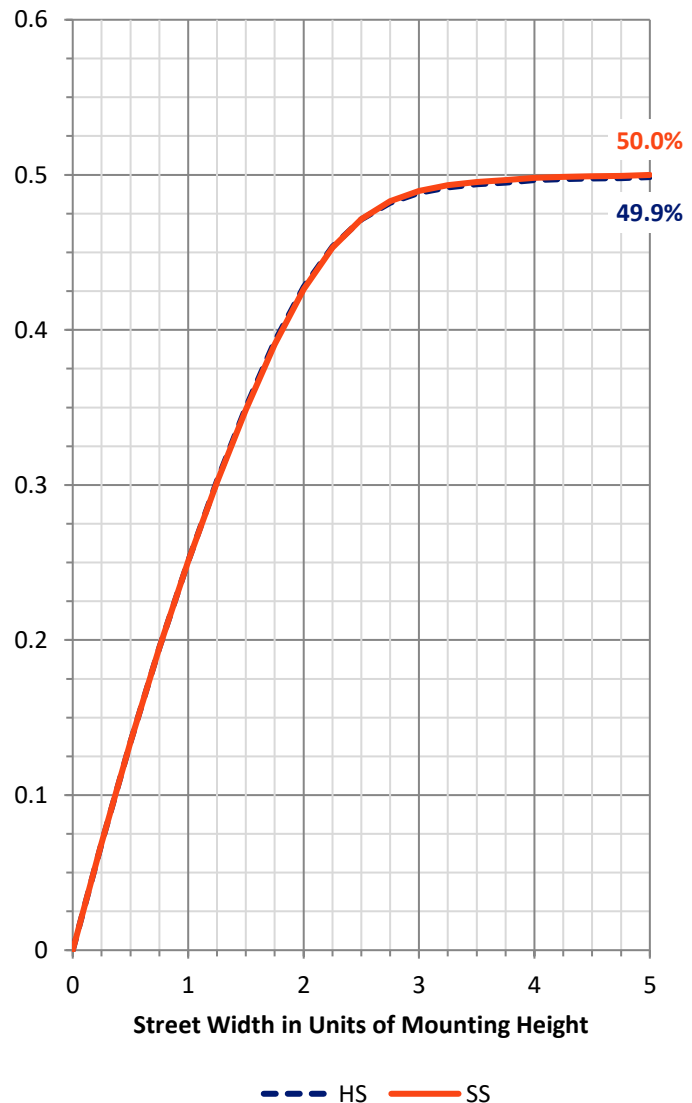
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34772.7	0.0	34772.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	34951.2	0.0	34951.2
	% Fixture	50.1	0.0	50.1
Total	Lumens	69723.9	0.0	69723.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	720.7	1.0
10°-20°	2105.6	3.0
20°-30°	3580.6	5.1
30°-40°	5677.2	8.1
40°-50°	9257.1	13.3
50°-60°	15809.9	22.7
60°-70°	24046.7	34.5
70°-80°	8105.2	11.6
80°-90°	420.8	0.6
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°	69723.9	100.0
0°-180°	69723.9	100.0

Coefficient of Utilization



REPORT NUMBER: P977470

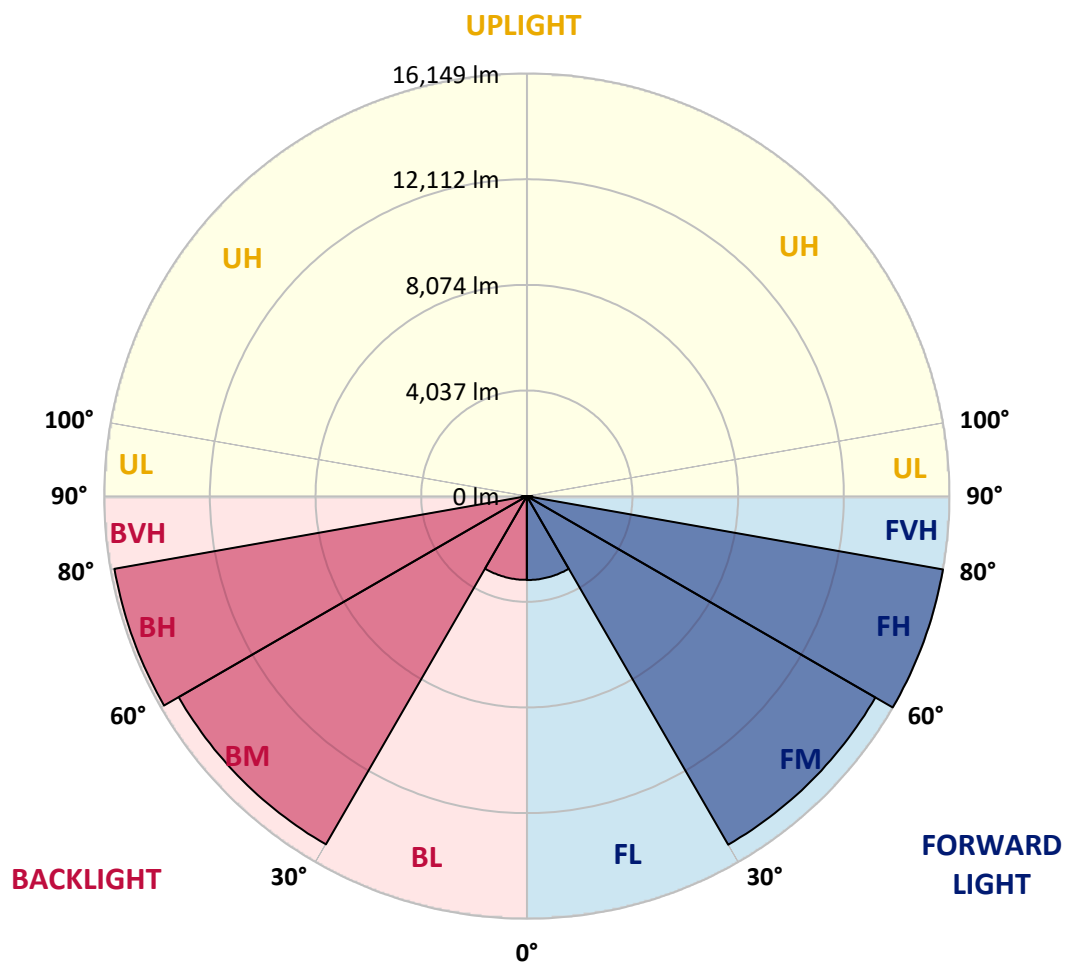
CATALOG NUMBER: EPH-VN-08-E-750-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3206.7	4.6			
FM	(30°-60°)	15380.4	22.1			
FH	(60°-80°)	16148.8	23.2			G5
FVH	(80°-90°)	215.3	0.3			G2/225
BL	(0°-30°)	3200.1	4.6	B4/5000		
BM	(30°-60°)	15363.8	22.0	B5		
BH	(60°-80°)	16003.2	23.0	B5		G5
BVH	(80°-90°)	205.5	0.3			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 V Short





REPORT NUMBER: P977470

CATALOG NUMBER: EPH-VN-08-E-750-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1
2.5°	7441.0	7528.6	7592.3	7584.3	7608.2	7632.0	7600.2	7648.0	7616.1	7671.8	7703.7
5°	7584.3	7560.4	7568.4	7520.6	7632.0	7504.7	7504.7	7568.4	7648.0	7552.5	7608.2
7.5°	7496.8	7480.8	7441.0	7512.7	7536.5	7536.5	7600.2	7480.8	7616.1	7648.0	7655.9
10°	7401.3	7313.7	7433.1	7504.7	7520.6	7393.3	7449.0	7480.8	7441.0	7480.8	7504.7
12.5°	7321.7	7369.4	7369.4	7369.4	7345.5	7433.1	7488.8	7480.8	7401.3	7472.9	7345.5
15°	7313.7	7289.8	7361.5	7425.1	7385.3	7401.3	7425.1	7496.8	7345.5	7377.4	7377.4
17.5°	7305.8	7337.6	7361.5	7353.5	7488.8	7488.8	7464.9	7417.2	7536.5	7472.9	7385.3
20°	7337.6	7313.7	7377.4	7401.3	7496.8	7687.8	7616.1	7576.3	7512.7	7433.1	7433.1
22.5°	7377.4	7361.5	7449.0	7552.5	7735.5	7783.3	7775.3	7727.5	7616.1	7520.6	7504.7
25°	7520.6	7377.4	7472.9	7671.8	7735.5	7831.0	7894.7	7831.0	7679.8	7703.7	7560.4
27.5°	7735.5	7711.6	7839.0	7974.3	7918.5	8006.1	7950.4	7998.1	8006.1	7886.7	7743.5
30°	7990.2	7918.5	7998.1	8260.8	8284.6	8380.1	8284.6	8157.3	8197.1	8093.6	8022.0
32.5°	8356.3	8332.4	8483.6	8658.7	8690.5	8642.8	8595.0	8666.6	8499.5	8419.9	8292.6
35°	8595.0	8698.5	8881.5	9016.8	9120.3	9072.5	9096.4	9024.8	9064.5	8897.4	8841.7
37.5°	9303.3	9263.5	9303.3	9534.1	9558.0	9534.1	9558.0	9637.5	9581.8	9438.6	9295.3
40°	9971.8	9908.1	10003.6	10266.3	10250.3	10329.9	10170.8	10258.3	10258.3	9987.7	9932.0
42.5°	10473.2	10688.0	10799.5	11014.3	11093.9	11022.3	10990.5	11006.4	11181.5	10863.1	10743.8
45°	11507.8	11499.8	11834.0	11953.4	11730.6	11714.7	11651.0	11842.0	11961.4	11778.3	11730.6
47.5°	12629.9	12685.6	12876.6	12924.3	13059.6	12812.9	12812.9	12836.8	13258.6	12828.8	12606.0
50°	13640.6	13712.2	14094.2	14468.3	14213.6	13951.0	14054.4	14181.8	14412.5	14006.7	13815.7
52.5°	14866.2	15256.1	15510.8	15709.8	15892.8	15709.8	15471.0	15614.3	16067.9	15526.7	15288.0
55°	16632.9	16943.3	17182.0	17548.1	17699.3	17452.6	17428.8	17412.8	17667.5	17094.5	16768.2
57.5°	18606.6	18479.3	18861.3	19426.3	19975.4	19736.7	19665.0	19681.0	19744.6	18932.9	18686.2
60°	21057.8	21201.0	21654.6	22148.0	22729.0	23063.3	22593.7	22323.1	22378.8	21272.6	20890.6
62.5°	22458.4	22776.8	23803.4	25498.5	26668.4	27710.9	27782.6	26023.8	24845.9	22697.2	21073.7
65°	21782.0	21734.2	23668.1	26803.7	31236.5	34268.6	33815.0	29549.3	25434.8	22020.7	19840.1
67.5°	18527.0	18399.7	20739.4	25713.4	33035.1	39656.4	39139.1	30544.1	23445.3	19482.0	17014.9
70°	11937.5	11905.7	14444.4	19601.4	29493.6	36409.4	36600.4	27742.8	19084.1	14269.3	11826.1
72.5°	4337.3	4599.9	6072.2	10536.8	20031.1	27854.2	27973.6	20540.5	10974.5	6597.5	4862.5
75°	1599.6	1647.4	1918.0	3422.1	9128.2	17102.5	17548.1	9963.8	3899.6	2148.8	1750.8
77.5°	923.2	931.1	1026.6	1273.3	2705.8	6677.0	6947.6	3024.2	1512.1	1146.0	1058.5
80°	628.7	620.8	724.2	827.7	1082.3	1894.1	2013.5	1265.4	955.0	795.8	668.5
82.5°	366.1	390.0	533.2	588.9	660.5	835.6	851.5	787.9	716.3	588.9	437.7
85°	222.8	183.0	294.5	326.3	382.0	374.0	374.0	429.8	461.6	413.8	246.7
87.5°	55.7	55.7	71.6	79.6	103.5	79.6	87.5	167.1	222.8	206.9	127.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P977470

CATALOG NUMBER: EPH-VN-08-E-750-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1	7616.1
2.5°	7632.0	7608.2	7624.1	7711.6	7655.9	7488.8	7528.6	7616.1	7544.5	7504.7	7496.8
5°	7600.2	7648.0	7592.3	7608.2	7663.9	7528.6	7552.5	7663.9	7616.1	7632.0	7544.5
7.5°	7608.2	7632.0	7584.3	7512.7	7512.7	7624.1	7560.4	7576.3	7504.7	7624.1	7464.9
10°	7560.4	7496.8	7441.0	7480.8	7464.9	7433.1	7409.2	7457.0	7385.3	7488.8	7377.4
12.5°	7417.2	7433.1	7417.2	7401.3	7433.1	7512.7	7385.3	7401.3	7289.8	7305.8	7361.5
15°	7361.5	7409.2	7393.3	7480.8	7520.6	7401.3	7496.8	7401.3	7313.7	7266.0	7353.5
17.5°	7385.3	7457.0	7433.1	7496.8	7425.1	7512.7	7528.6	7488.8	7385.3	7345.5	7385.3
20°	7409.2	7385.3	7417.2	7528.6	7632.0	7544.5	7544.5	7520.6	7425.1	7369.4	7369.4
22.5°	7464.9	7425.1	7472.9	7560.4	7592.3	7727.5	7608.2	7552.5	7393.3	7250.0	7385.3
25°	7576.3	7600.2	7632.0	7600.2	7775.3	7759.4	7743.5	7703.7	7457.0	7464.9	7441.0
27.5°	7791.2	7655.9	7695.7	7886.7	7910.6	7974.3	7894.7	7966.3	7703.7	7711.6	7552.5
30°	8053.8	7910.6	8037.9	8205.0	8197.1	8316.5	8276.7	8292.6	8109.5	8006.1	7791.2
32.5°	8340.3	8324.4	8404.0	8507.5	8547.3	8610.9	8603.0	8603.0	8491.5	8221.0	8260.8
35°	8658.7	8770.1	8865.6	8977.0	8992.9	9072.5	8961.1	8977.0	8865.6	8666.6	8730.3
37.5°	9287.4	9279.4	9382.9	9518.2	9534.1	9470.4	9558.0	9518.2	9367.0	9231.7	9128.2
40°	10019.5	9860.4	9955.9	10274.2	10298.1	10186.7	10178.7	10170.8	10059.3	9764.9	9701.2
42.5°	10656.2	10863.1	10847.2	10950.7	10879.0	10823.3	11022.3	10910.9	10823.3	10513.0	10457.3
45°	11475.9	11539.6	11746.5	12080.8	11738.5	11738.5	11873.8	11786.3	11738.5	11507.8	11292.9
47.5°	12494.6	12550.3	12964.1	12988.0	12765.2	12614.0	13035.8	13051.7	12852.7	12677.6	12415.0
50°	13688.3	13712.2	14086.3	14468.3	14221.5	13935.0	14364.8	14531.9	14086.3	13847.5	13521.2
52.5°	15001.5	14929.8	15240.2	15956.5	15717.7	15630.2	16091.8	16131.5	15526.7	15152.7	15240.2
55°	16513.5	16418.0	17261.6	17747.1	17595.9	17436.7	17643.6	17739.1	17253.7	16640.9	16855.8
57.5°	18471.3	18519.0	18940.8	19418.3	19665.0	19704.8	19800.3	19704.8	19211.4	18590.7	18391.7
60°	20429.0	20572.3	21392.0	22291.3	22370.9	23071.2	22943.9	22466.4	21766.0	20882.7	20922.5
62.5°	21153.3	21033.9	22355.0	24551.5	26421.7	27703.0	27137.9	25442.8	23819.3	22211.7	22331.1
65°	19696.9	19991.3	21789.9	25227.9	29286.7	34356.1	31347.9	26660.4	23381.6	21304.5	21073.7
67.5°	16975.1	17198.0	19482.0	23111.0	30313.3	38446.7	32939.6	24941.4	20620.0	17930.1	18073.4
70°	11826.1	11937.5	14173.8	18932.9	27488.1	36282.1	29716.4	19155.7	14237.5	11348.6	11507.8
72.5°	4759.1	5029.7	6502.0	11404.3	20293.8	27567.7	20007.3	10051.4	5905.1	4393.0	3987.1
75°	1758.8	1766.8	2077.1	3923.5	9637.5	17325.3	9024.8	3231.1	1886.1	1543.9	1472.3
77.5°	1018.7	1010.7	1082.3	1416.6	2793.4	6764.6	2562.6	1265.4	1026.6	923.2	883.4
80°	636.7	628.7	740.1	939.1	1225.6	1854.3	1082.3	787.9	692.4	596.9	596.9
82.5°	405.9	413.8	581.0	692.4	748.1	819.7	628.7	557.1	517.3	342.2	334.3
85°	262.6	238.8	405.9	461.6	413.8	366.1	350.2	294.5	270.6	167.1	183.0
87.5°	119.4	127.3	206.9	230.8	151.2	87.5	87.5	63.7	63.7	39.8	39.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)