

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: P977452

Luminaire Tested: **EPH-VN-08-E-730-U-T4FT**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977452
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-730-U-T4FT
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62996.6 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

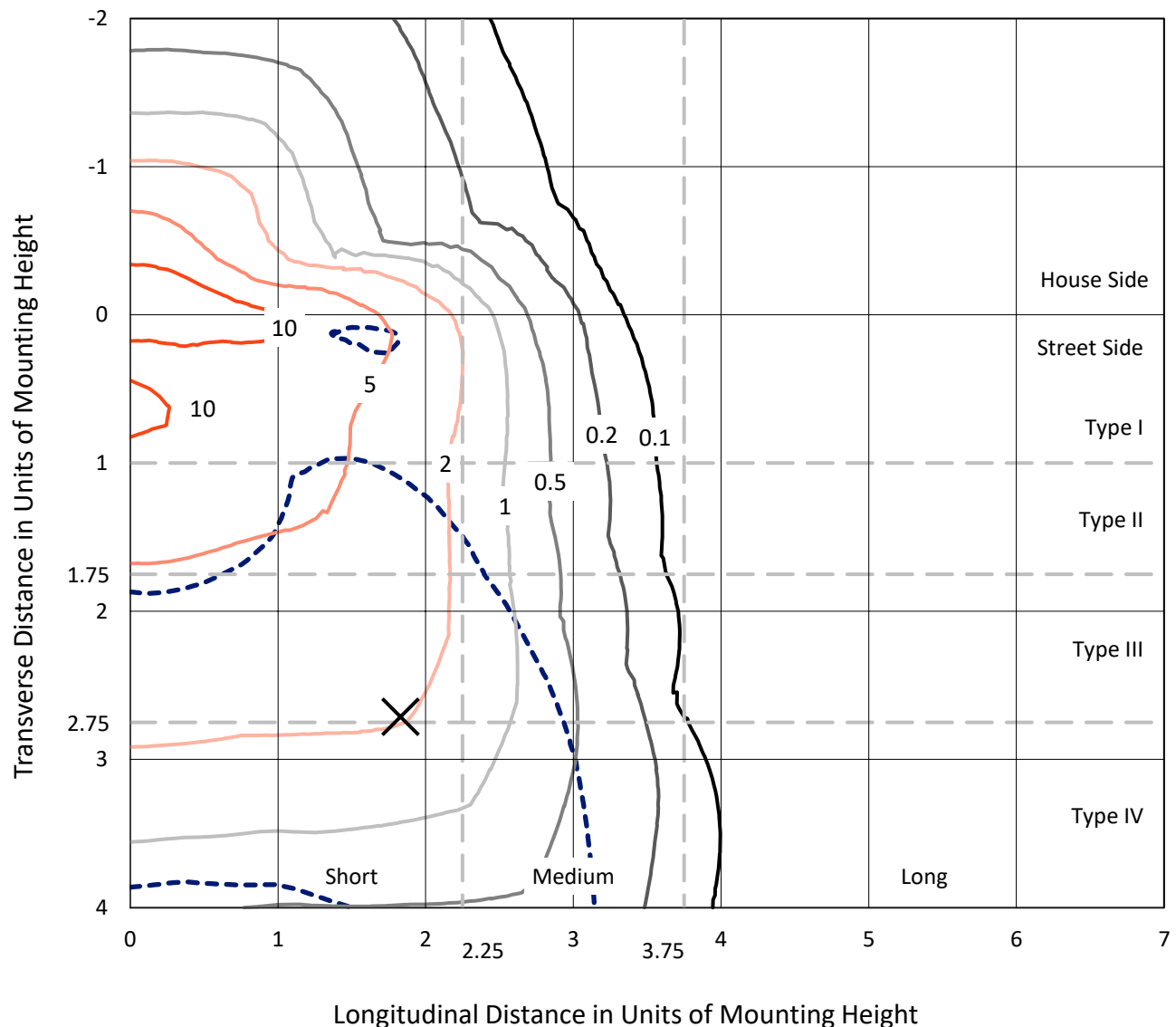
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P977452

CATALOG NUMBER: EPH-VN-08-E-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



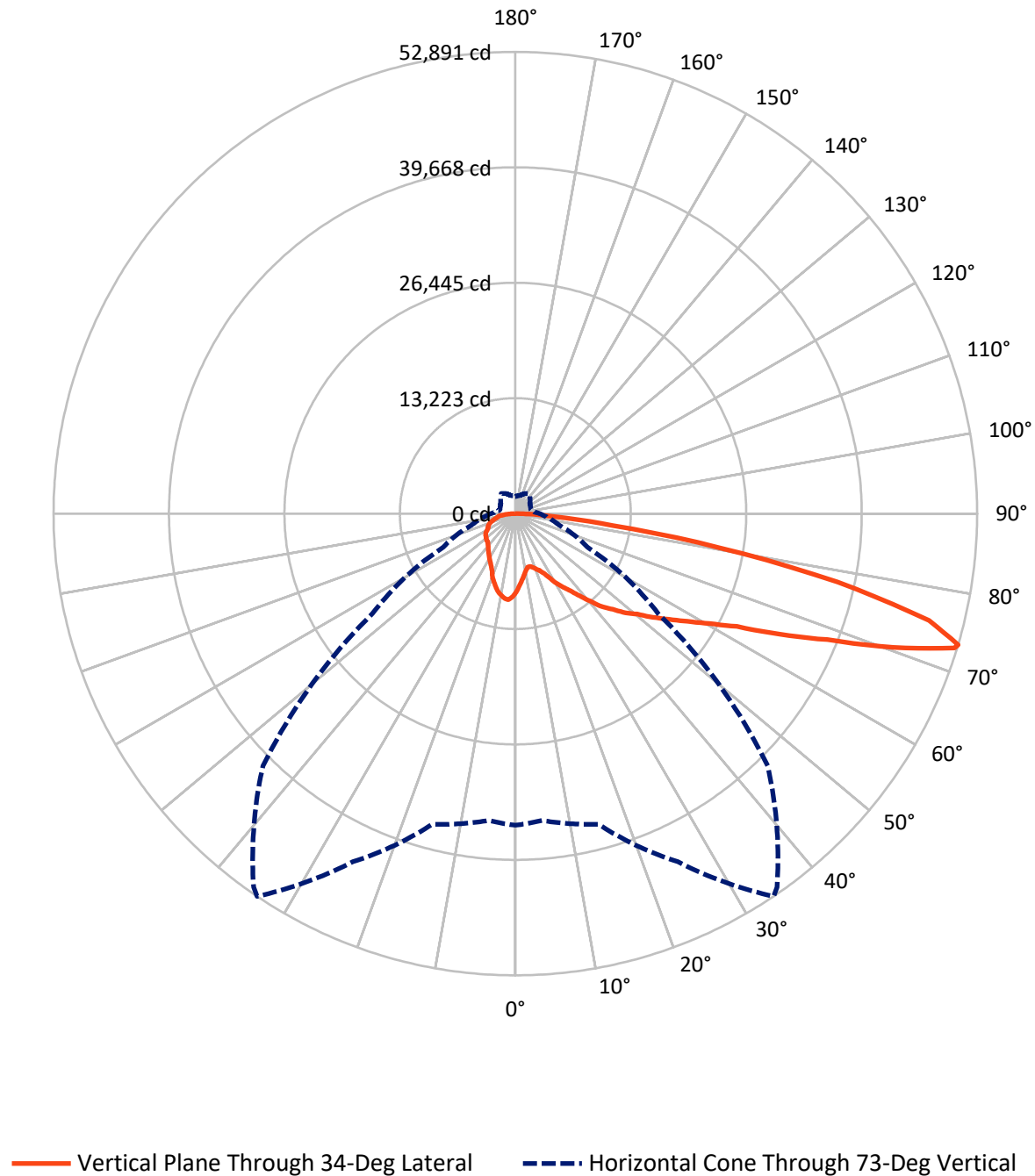
Based on 25 foot mounting height. Maximum calculated value = 15.1 fc

Type IV - Short - N/A

REPORT NUMBER: P977452

CATALOG NUMBER: EPH-VN-08-E-730-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P977452

CATALOG NUMBER: EPH-VN-08-E-730-U-T4FT

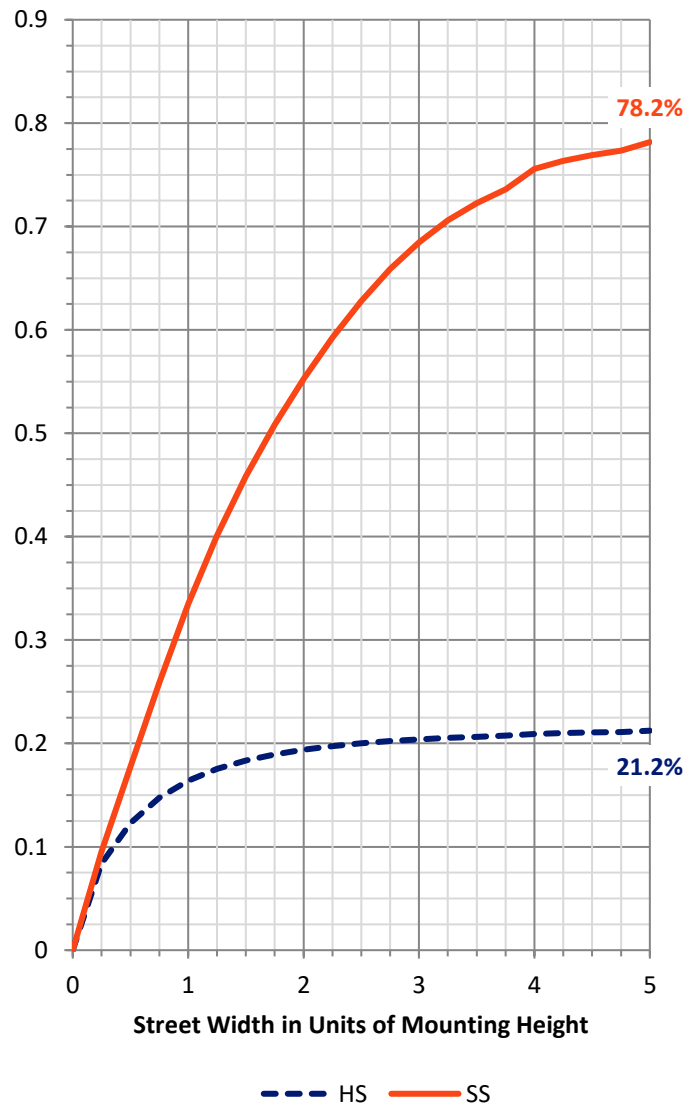
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13608.0	0.0	13608.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	49388.5	0.0	49388.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	62996.6	0.0	62996.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	833.6	1.3
10°-20°	2332.8	3.7
20°-30°	3839.5	6.1
30°-40°	5741.9	9.1
40°-50°	8512.1	13.5
50°-60°	12266.8	19.5
60°-70°	15654.1	24.8
70°-80°	12181.5	19.3
80°-90°	1634.2	2.6
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°	62996.6	100.0
0°-180°	62996.6	100.0

Coefficient of Utilization



REPORT NUMBER: P977452

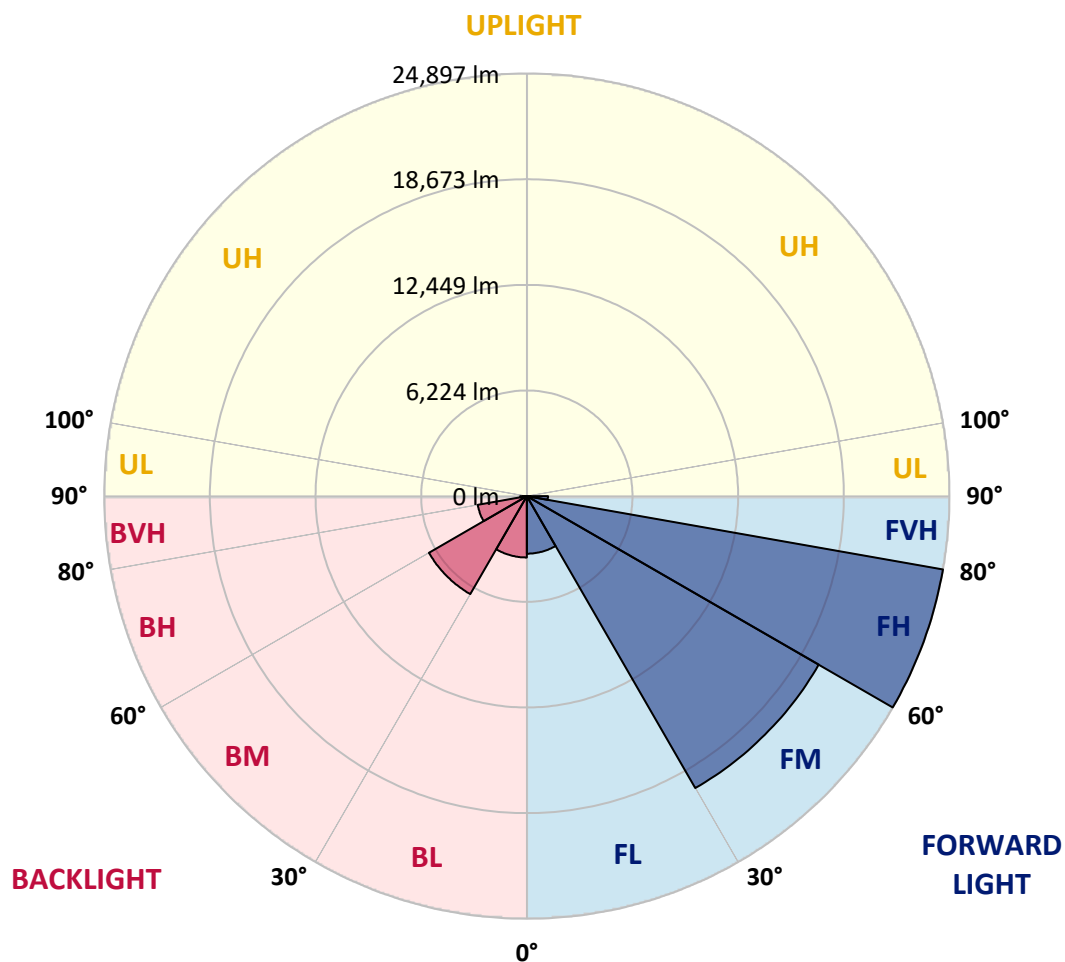
CATALOG NUMBER: EPH-VN-08-E-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3390.3	5.4			
FM	(30°-60°)	19856.9	31.5			
FH	(60°-80°)	24897.4	39.5			G5
FVH	(80°-90°)	1243.9	2.0			G5
BL	(0°-30°)	3615.6	5.7	B4/5000		
BM	(30°-60°)	6663.9	10.6	B4/8500		
BH	(60°-80°)	2938.3	4.7	B4/5000		G4/5000
BVH	(80°-90°)	390.3	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P977452

CATALOG NUMBER: EPH-VN-08-E-730-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6
2.5°	8092.4	8119.1	8205.7	8225.6	8318.9	8265.6	8378.8	8578.6	8691.9	8858.4	9058.2
5°	7453.0	7339.8	7393.1	7599.6	7706.1	7732.8	7852.7	8192.3	8405.5	8651.9	9024.9
7.5°	6700.4	6680.4	6787.0	6920.2	7133.3	7153.3	7419.7	7719.4	8159.0	8705.2	9144.8
10°	6187.5	6274.1	6334.1	6473.9	6620.5	6620.5	6960.2	7479.7	7979.2	8505.4	9171.4
12.5°	6160.9	6107.6	6120.9	6194.2	6300.8	6434.0	6753.7	7219.9	7852.7	8465.4	9284.6
15°	6247.5	6267.5	6147.6	6240.8	6280.8	6327.4	6680.4	7206.6	7772.7	8605.3	9477.8
17.5°	6707.1	6593.8	6407.3	6320.8	6460.6	6460.6	6700.4	7113.3	7786.0	8678.5	9757.5
20°	7066.7	7066.7	6760.3	6667.1	6767.0	6747.0	6913.5	7219.9	7852.7	8825.1	10070.6
22.5°	7672.8	7759.4	7253.2	7060.1	7053.4	7106.7	7253.2	7513.0	8039.1	9031.6	10370.3
25°	8545.3	8565.3	7979.2	7779.4	7566.3	7652.8	7679.5	7939.2	8205.7	9271.3	10710.0
27.5°	9517.8	9504.4	8964.9	8465.4	8325.5	8345.5	8199.0	8372.2	8452.1	9344.6	11196.2
30°	10596.8	10476.9	10070.6	9364.6	9251.3	9124.8	8805.1	8798.4	8964.9	9757.5	11868.9
32.5°	11302.8	11149.6	10869.8	10363.6	10050.6	10063.9	9557.7	9551.1	9404.5	10210.4	12455.0
35°	11995.4	11762.3	11689.1	11169.6	10856.5	10889.8	10483.5	10430.2	10163.8	10896.5	13420.8
37.5°	12828.0	12621.5	12734.8	12341.8	11955.5	11795.6	11609.1	11542.5	11196.2	11862.2	14739.5
40°	13747.1	13680.5	13607.3	13414.1	13181.0	13194.3	12994.5	12927.9	12415.1	13027.8	16005.0
42.5°	14986.0	14732.9	14353.2	14479.8	14599.7	14726.2	14659.6	14486.4	13953.6	14213.4	17417.0
45°	16138.2	15805.2	15105.9	15145.8	15638.7	15738.6	16544.5	16524.5	15452.2	15718.6	19022.2
47.5°	16917.5	16764.3	16344.7	16298.1	17004.1	16997.4	18449.4	18449.4	17030.7	17217.2	20747.3
50°	18076.4	17676.8	17497.0	17730.1	18089.7	18336.2	20394.3	20520.8	18582.6	18782.4	23005.1
52.5°	19435.2	18935.6	18482.7	19082.1	19721.5	19881.4	22319.1	22265.8	19774.8	20600.7	25649.3
55°	20560.8	20307.7	19994.6	20341.0	21386.7	21586.5	24250.6	23757.8	20967.1	22106.0	26921.5
57.5°	21872.9	22026.1	22092.7	22006.1	23251.6	23564.6	26455.2	25043.2	21992.8	23118.4	27667.4
60°	23851.0	23944.3	24030.9	24237.3	25556.1	25995.7	28200.3	26655.1	22638.8	23704.5	27727.4
62.5°	26861.5	26501.9	26695.0	27407.7	28466.7	28966.2	30771.2	27787.3	23131.7	24057.5	25769.2
65°	30305.0	29818.8	29619.0	30538.1	33282.2	32882.6	33981.5	28633.2	22419.0	22738.7	21852.9
67.5°	33795.0	33848.3	33335.5	35180.4	38543.9	38543.9	36965.4	29039.5	20487.5	18429.4	15325.7
70°	36565.8	36732.3	37012.0	40588.7	45917.0	46723.0	40662.0	27374.4	16551.2	12268.5	8378.8
72.5°	36525.8	36026.3	37458.3	44045.5	52617.4	51944.7	41434.6	21646.4	10330.3	6007.7	3843.1
73°	35706.6	35287.0	36852.2	44012.2	52890.5	52257.8	40868.4	19954.7	9111.5	5208.5	3416.8
75°	29159.4	28400.1	31064.3	39862.7	48934.2	49420.4	34720.8	13014.5	4995.3	3210.3	2404.4
77.5°	13294.2	13627.3	17097.3	26741.6	37711.4	38284.2	22825.3	5628.1	2737.4	2251.2	1771.7
80°	4269.3	4482.5	6653.8	13294.2	23637.9	24670.3	10550.1	2557.6	1951.5	1725.1	1325.4
82.5°	1631.8	1625.1	2790.7	5528.2	11202.9	11862.2	3856.4	1558.5	1452.0	1272.1	939.1
85°	572.8	599.4	1052.3	2184.6	4409.2	4615.7	1338.7	865.9	1005.7	852.5	539.5
87.5°	199.8	206.5	373.0	792.6	1518.6	1605.2	373.0	346.3	499.5	492.9	273.1
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: P977452

CATALOG NUMBER: EPH-VN-08-E-730-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6	9031.6
2.5°	9124.8	9184.7	9204.7	9444.5	9444.5	9444.5	9537.7	9537.7	9511.1	9444.5	9604.3
5°	9164.8	9271.3	9477.8	9684.3	9737.6	9784.2	9910.7	9804.2	9844.1	9777.5	9837.5
7.5°	9278.0	9424.5	9810.8	9937.4	9850.8	9950.7	9817.5	9744.2	9671.0	9697.6	9604.3
10°	9471.1	9657.6	9837.5	10070.6	9904.1	9804.2	9531.1	9464.5	9231.4	9151.4	9224.7
12.5°	9710.9	9937.4	10243.7	10157.2	9837.5	9551.1	9258.0	8978.3	8838.4	8638.6	8691.9
15°	9950.7	10210.4	10257.1	10110.5	9710.9	9351.3	8818.4	8425.5	8285.6	8105.7	8199.0
17.5°	10210.4	10456.9	10377.0	9997.3	9457.8	8911.7	8305.6	7919.3	7626.2	7513.0	7513.0
20°	10596.8	10716.6	10590.1	9810.8	9151.4	8432.1	7846.0	7406.4	7113.3	7066.7	6993.5
22.5°	10896.5	11089.6	10523.5	9537.7	8705.2	7806.0	7133.3	6966.8	6880.2	6807.0	6713.7
25°	11282.8	11276.1	10403.6	9284.6	7939.2	7060.1	6653.8	6640.5	6600.5	6573.8	6700.4
27.5°	11649.1	11495.9	10263.7	8658.6	7146.6	6493.9	6274.1	6420.7	6480.6	6440.6	6493.9
30°	12228.6	11975.5	10063.9	7992.5	6447.3	5921.1	5961.1	6160.9	6260.8	6320.8	6240.8
32.5°	12841.3	12455.0	9651.0	7299.8	5827.9	5561.5	5654.7	5861.2	5981.1	6047.7	6120.9
35°	13727.2	12828.0	9231.4	6394.0	5381.6	5341.7	5395.0	5508.2	5681.4	5728.0	5748.0
37.5°	14819.5	13394.1	8665.2	5668.0	5035.3	5081.9	5135.2	5175.2	5181.8	5268.4	5235.1
40°	15911.8	13873.7	7839.3	4975.3	4675.6	4928.7	4902.1	4828.8	4768.9	4688.9	4669.0
42.5°	16870.9	14293.3	6920.2	4389.2	4355.9	4768.9	4682.3	4495.8	4355.9	4296.0	4196.1
45°	17949.9	14886.1	5994.4	4022.9	4109.5	4575.7	4549.1	4262.7	4082.8	3869.7	3843.1
47.5°	19348.6	15505.5	5108.6	3643.3	3876.4	4502.5	4515.8	4149.5	3889.7	3603.3	3563.3
50°	21140.2	16398.0	4435.8	3483.4	3736.5	4395.9	4415.9	3996.3	3656.6	3363.5	3336.9
52.5°	22858.6	17310.5	3876.4	3237.0	3643.3	4269.3	4316.0	3856.4	3463.4	3097.1	3117.1
55°	23724.5	16977.4	3396.8	3057.1	3430.1	4062.9	4236.0	3756.5	3170.4	2917.3	2910.6
57.5°	23917.6	16158.2	3017.2	2870.6	3250.3	3843.1	4102.8	3456.8	3037.2	2824.0	2797.4
60°	23284.9	14726.2	2717.5	2670.8	3023.8	3616.6	3796.4	3296.9	2903.9	2730.8	2690.8
62.5°	21726.3	13240.9	2511.0	2577.6	2830.7	3370.2	3603.3	3183.7	2777.4	2657.5	2570.9
65°	17816.7	10889.8	2344.5	2397.8	2630.9	3130.4	3483.4	3057.1	2664.2	2550.9	2544.3
67.5°	12341.8	7506.3	2211.3	2311.2	2471.0	2957.2	3363.5	2917.3	2517.6	2477.7	2424.4
70°	6320.8	4002.9	2038.1	2118.0	2297.9	2737.4	3150.4	2770.7	2364.5	2357.8	2291.2
72.5°	3203.7	2344.5	1838.3	1958.2	2084.7	2451.0	2884.0	2577.6	2171.3	2098.0	1991.5
73°	2770.7	2171.3	1805.0	1911.5	2031.4	2371.1	2804.0	2531.0	2144.7	2038.1	1938.2
75°	2018.1	1711.7	1618.5	1725.1	1818.3	2138.0	2537.6	2317.8	1971.5	1858.3	1765.0
77.5°	1511.9	1318.8	1345.4	1465.3	1545.2	1844.9	2257.9	2098.0	1785.0	1631.8	1591.8
80°	1112.3	1005.7	1112.3	1225.5	1285.5	1625.1	2058.1	1818.3	1505.3	1332.1	1298.8
82.5°	792.6	732.6	859.2	932.5	959.1	1345.4	1851.6	1452.0	1138.9	912.5	839.2
85°	452.9	446.2	579.5	572.8	592.8	785.9	1218.9	965.8	732.6	559.5	546.2
87.5°	199.8	219.8	293.1	233.1	246.4	373.0	519.5	359.7	299.7	166.5	126.5
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)