

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: P977448

Luminaire Tested: **EPH-VN-08-E-735-U-T3R**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977448
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-735-U-T3R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3R
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65423.4 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

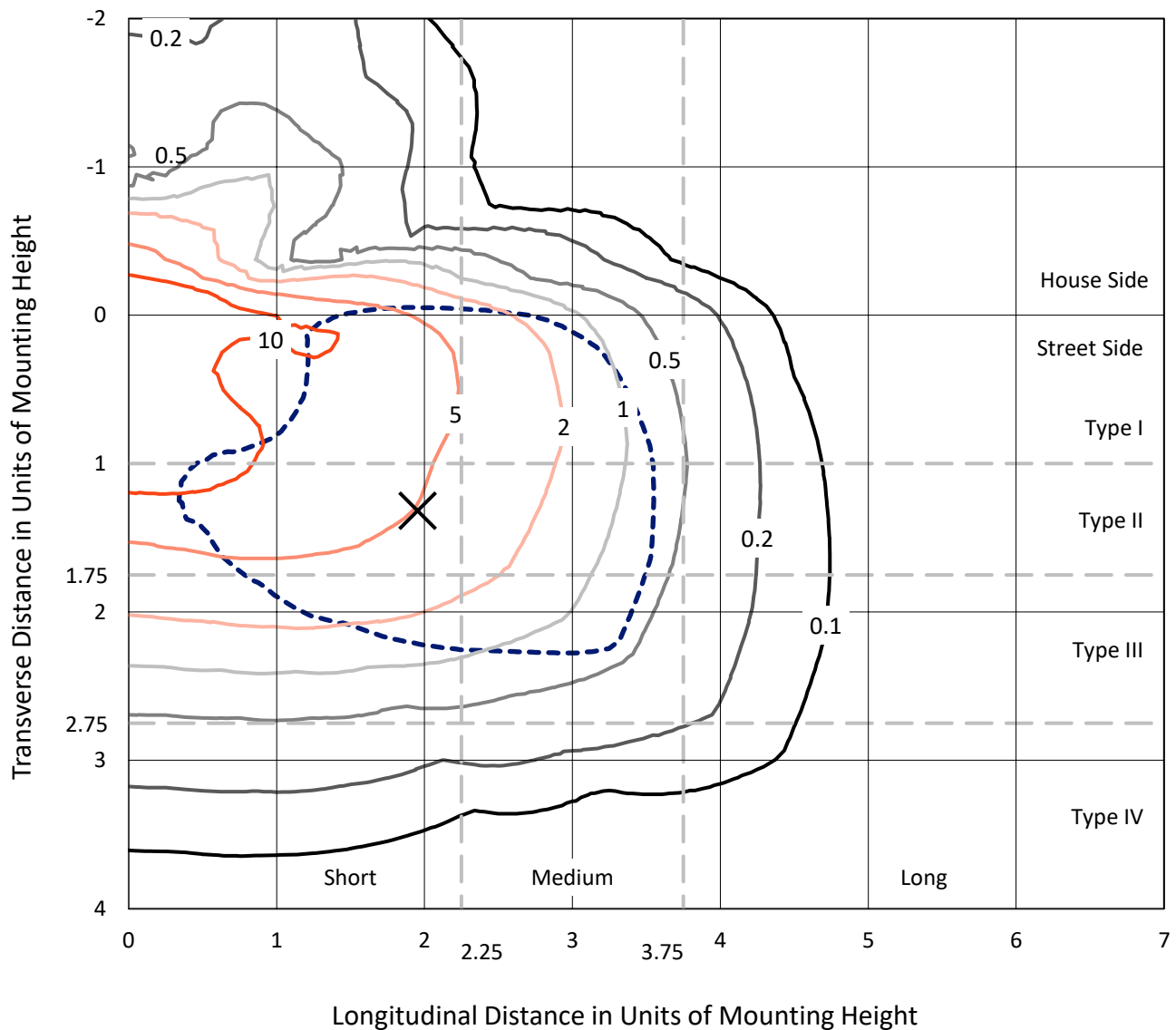
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P977448

CATALOG NUMBER: EPH-VN-08-E-735-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

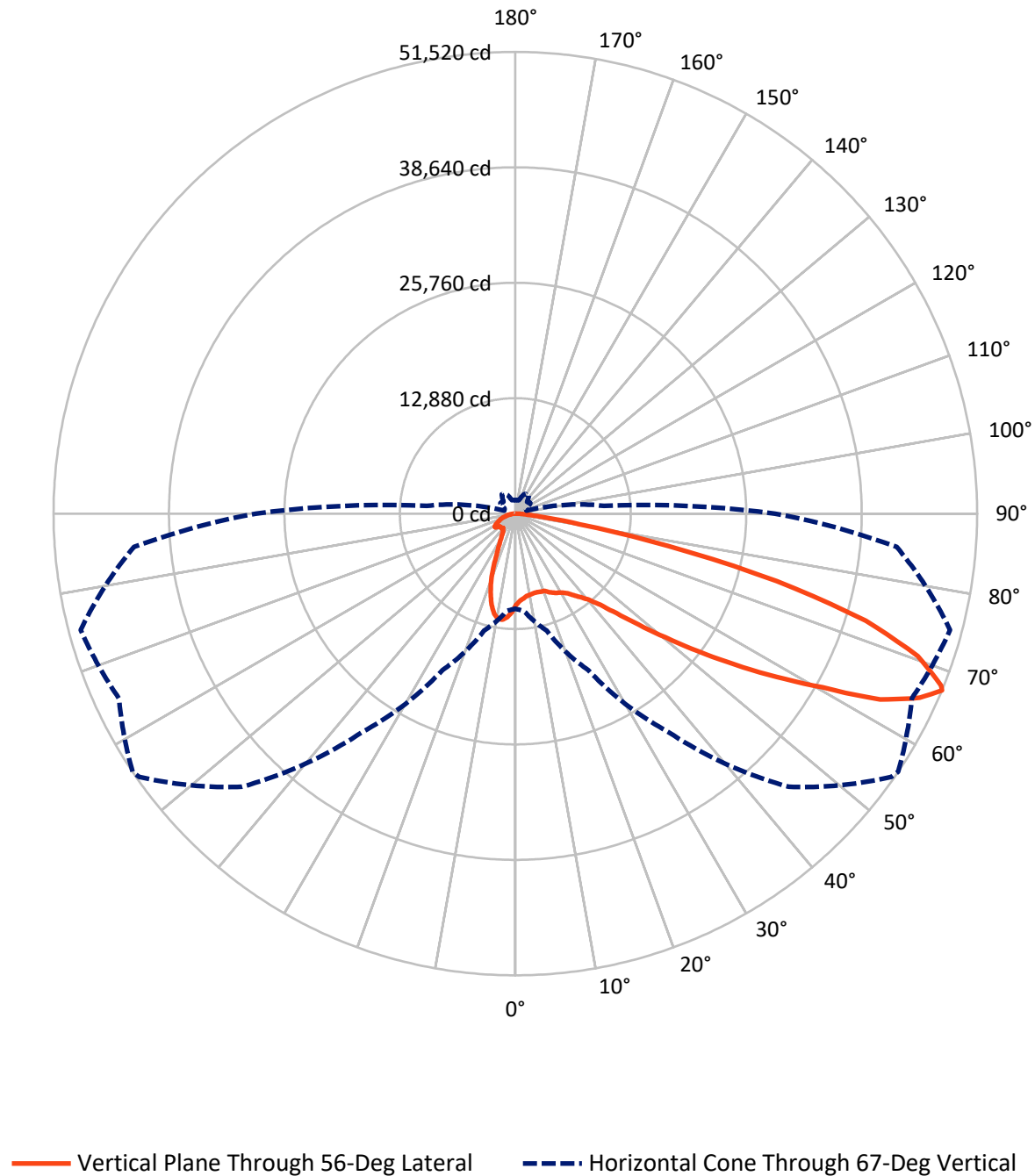


Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type III - Short - N/A

REPORT NUMBER: P977448

CATALOG NUMBER: EPH-VN-08-E-735-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P977448

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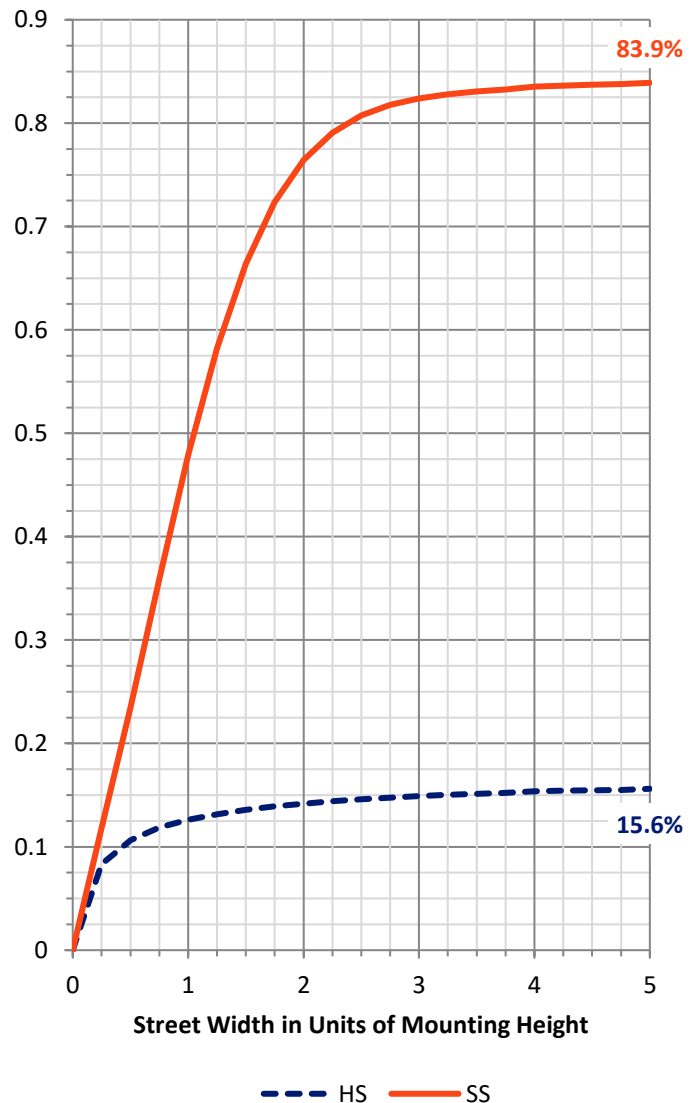
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10357.2	0.0	10357.2
	% Fixture	15.8	0.0	15.8
Street Side	Lumens	55066.2	0.0	55066.2
	% Fixture	84.2	0.0	84.2
Total	Lumens	65423.4	0.0	65423.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	980.7	1.5
10°-20°	2675.4	4.1
20°-30°	4195.9	6.4
30°-40°	5989.7	9.2
40°-50°	9040.1	13.8
50°-60°	14390.3	22.0
60°-70°	18396.9	28.1
70°-80°	8969.7	13.7
80°-90°	784.7	1.2
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°	65423.4	100.0
0°-180°	65423.4	100.0

Coefficient of Utilization



REPORT NUMBER: P977448

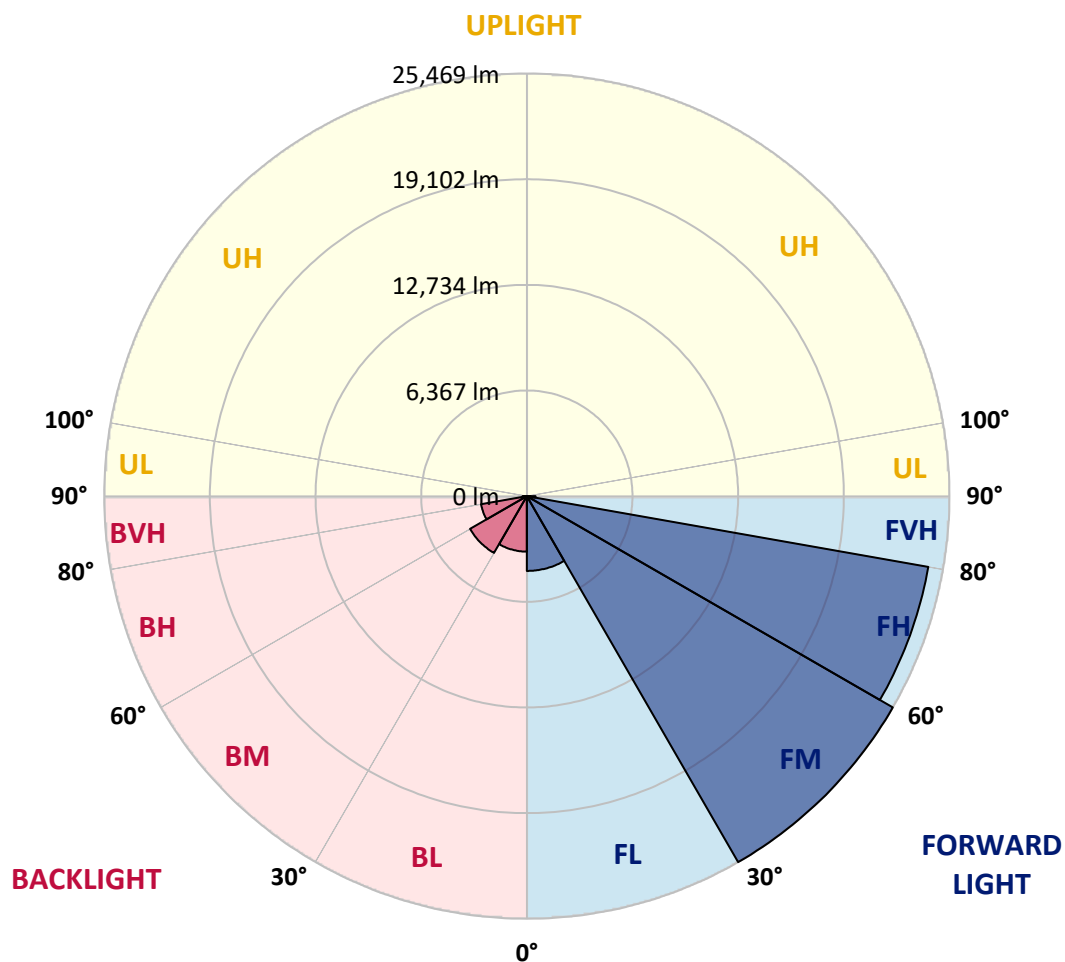
CATALOG NUMBER: EPH-VN-08-E-735-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4508.4	6.9			
FM	(30°-60°)	25468.7	38.9			
FH	(60°-80°)	24567.9	37.6			G5
FVH	(80°-90°)	521.1	0.8			G4/750
BL	(0°-30°)	3343.6	5.1	B4/5000		
BM	(30°-60°)	3951.4	6.0	B3/5000		
BH	(60°-80°)	2798.7	4.3	B4/5000		G4/5000
BVH	(80°-90°)	263.5	0.4			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 III Short





REPORT NUMBER: P977448

CATALOG NUMBER: EPH-VN-08-E-735-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7
2.5°	9351.2	9312.9	9358.9	9312.9	9520.0	9642.7	9681.1	9734.8	9926.6	10110.7	10271.8
5°	8960.0	8791.2	8975.3	9036.7	9052.0	9259.2	9474.0	9512.3	9612.0	9911.2	10402.2
7.5°	8307.9	8499.7	8430.7	8614.8	8806.6	9013.7	9366.6	9266.8	9635.0	9918.9	10640.0
10°	8169.8	8185.2	8261.9	8330.9	8499.7	8768.2	9259.2	9197.8	9573.7	10179.7	10839.4
12.5°	8307.9	8307.9	8284.9	8231.2	8423.0	8683.8	9075.0	9105.7	9696.4	10256.4	11146.3
15°	8791.2	8883.3	8637.8	8676.1	8599.4	8683.8	9029.0	9098.1	9742.4	10317.8	11330.4
17.5°	9972.6	9941.9	9650.4	9243.8	8906.3	8852.6	9090.4	9167.1	9696.4	10494.2	11560.5
20°	11123.3	11061.9	10555.6	10133.7	9466.3	9151.8	9190.1	9197.8	9773.1	10609.3	11928.7
22.5°	12404.4	12565.4	12013.1	11153.9	10325.5	9543.0	9389.6	9512.3	9949.6	10670.7	11967.1
25°	14414.2	14069.0	13593.4	12465.7	11130.9	10149.0	9719.4	9780.8	10118.3	10824.1	12059.1
27.5°	15864.1	15726.0	14981.9	14069.0	12258.6	10624.6	9895.9	10010.9	10425.2	10816.4	12189.6
30°	17260.2	17260.2	16807.6	15442.2	13447.6	11422.4	10271.8	10218.1	10279.4	10801.1	12465.7
32.5°	18894.2	18671.7	18019.7	17114.5	14943.5	12151.2	10570.9	10586.3	10586.3	11084.9	12741.9
35°	19753.4	20113.9	19676.7	18203.8	16086.5	13363.3	11292.0	11177.0	11092.6	11399.4	13094.8
37.5°	21011.5	21226.3	20766.0	19899.1	17505.7	14345.2	11928.7	11836.7	11345.7	11644.9	13992.3
40°	21770.9	21732.6	21717.2	21318.3	19385.2	15503.5	12864.6	12626.8	11967.1	12511.8	15104.6
42.5°	22200.5	22123.8	23067.3	22821.9	21157.2	17206.5	14038.3	13907.9	13179.1	14053.7	16823.0
45°	22683.8	23251.5	24026.2	24716.7	23220.8	19600.0	16025.2	15841.1	15189.0	16301.3	19116.7
47.5°	23105.7	23803.8	24793.4	25529.8	25084.9	22200.5	18480.0	18526.0	18096.4	19239.4	21993.4
50°	23811.5	23880.5	25223.0	26711.2	27056.4	24601.6	21778.6	21701.9	21510.1	23113.4	25123.2
52.5°	23596.7	23803.8	25499.1	27401.6	27969.2	27140.8	25322.7	25552.8	25299.7	27317.2	28713.4
55°	20098.6	20720.0	25330.4	28130.3	30132.5	30009.8	29879.4	29726.0	29710.6	32042.7	33285.4
57.5°	18510.6	19016.9	22315.6	28935.8	32449.2	33354.4	34198.3	34367.0	34359.4	37174.7	37665.7
60°	17467.4	17989.0	21095.8	28498.6	34420.7	37734.7	39353.3	39376.3	39330.3	42659.6	41071.7
62.5°	15426.8	15933.1	18986.3	26105.1	34965.4	41777.4	45382.9	45682.1	43572.5	47385.1	43181.3
65°	12972.0	13386.3	16078.9	22446.0	33515.5	44347.3	49916.6	49563.7	47147.3	50085.4	43779.6
67°	10609.3	10885.5	13509.0	19270.1	29726.0	43112.2	51228.4	51519.9	48796.6	50200.4	42705.7
67.5°	9934.2	10187.4	12665.2	18188.5	28283.8	42176.3	51274.4	51228.4	48827.3	50223.4	42145.7
70°	6896.4	7003.8	8630.1	12511.8	20835.0	35632.8	47530.8	47638.2	46779.1	47500.2	37197.7
72.5°	4572.0	4733.1	5768.8	7886.0	12281.6	25928.7	39729.2	40879.9	40335.2	38946.8	27324.9
75°	2945.7	3037.8	3774.2	4694.8	6044.9	14767.1	29350.1	30117.2	28866.8	24087.6	15304.1
77.5°	1649.3	1749.0	2278.4	2853.7	2945.7	6144.6	16485.4	17436.7	14774.8	10233.4	6114.0
80°	1027.9	1158.4	1718.4	1695.3	1403.8	2255.3	6796.7	7280.0	5906.8	3521.1	2040.5
82.5°	774.8	874.5	1327.1	1189.0	790.1	1004.9	2546.8	2731.0	2163.3	1357.8	897.5
85°	529.3	667.4	958.9	736.4	414.2	483.3	1012.6	1089.3	989.6	659.7	360.5
87.5°	191.8	283.8	498.6	368.2	184.1	145.8	329.9	368.2	352.9	299.2	161.1
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: P977448

CATALOG NUMBER: EPH-VN-08-E-735-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7	10179.7
2.5°	10417.5	10524.9	10578.6	10893.1	11023.5	11000.5	11031.2	11077.2	11123.3	11184.6	11246.0
5°	10501.9	10831.8	11008.2	11376.4	11621.9	11514.5	11652.6	11614.2	11560.5	11552.8	11621.9
7.5°	10778.1	11200.0	11729.3	11829.0	11936.4	11667.9	11437.8	11123.3	11046.5	10778.1	10870.1
10°	11269.0	11614.2	12258.6	12297.0	11821.3	11130.9	10617.0	9964.9	9957.2	9566.0	9550.7
12.5°	11737.0	12128.2	12649.8	12427.4	11292.0	10348.5	9512.3	8798.9	8499.7	8300.3	8254.2
15°	12028.5	12672.8	12949.0	11990.1	10363.8	9090.4	8008.7	7241.6	6934.8	6789.0	6758.3
17.5°	12297.0	13194.5	13071.8	11223.0	9220.8	7794.0	6505.2	5837.8	5753.4	5646.0	5699.7
20°	12665.2	13386.3	12634.5	10225.7	7924.4	6121.6	5300.8	4978.6	5055.3	5101.4	5047.7
22.5°	13010.4	13486.0	12082.2	9136.4	6259.7	4848.2	4441.6	4510.7	4625.7	4779.2	4694.8
25°	13163.8	13647.1	11338.1	7632.9	4763.8	4081.1	3989.0	4104.1	4295.9	4303.6	4380.3
27.5°	13263.5	13532.0	10440.5	6167.7	3766.6	3567.1	3705.2	3789.6	3812.6	3904.6	3989.0
30°	13440.0	13294.2	9305.2	4410.9	3160.5	3168.2	3344.6	3344.6	3344.6	3413.7	3490.4
32.5°	13746.8	13133.1	7978.1	3221.9	2723.3	2968.8	2922.7	2907.4	2876.7	2792.3	2746.3
35°	13938.6	12695.9	6298.1	2385.7	2447.1	2723.3	2707.9	2470.1	2071.2	1871.8	1963.8
37.5°	14337.5	12473.4	4633.4	1841.1	2286.0	2600.5	2516.2	1940.8	1503.6	1311.8	1304.1
40°	15196.7	12327.6	3206.6	1611.0	2178.6	2539.2	2247.7	1657.0	1150.7	813.1	790.1
42.5°	16247.6	12335.3	2178.6	1518.9	2186.3	2669.6	2163.3	1419.2	813.1	652.1	636.7
45°	17659.1	12220.2	1495.9	1518.9	2324.4	2884.4	2217.0	1288.8	790.1	828.5	843.8
47.5°	19178.0	12320.0	1112.3	1380.8	2347.4	2892.0	2025.2	1265.8	759.5	958.9	1066.3
50°	20950.1	12419.7	920.5	1273.4	2355.1	2800.0	1864.1	1235.1	790.1	1012.6	1173.7
52.5°	22775.8	12734.2	782.5	1204.4	2447.1	2761.6	1864.1	1281.1	790.1	882.2	905.2
55°	25499.1	13539.7	1127.7	1503.6	2784.7	3014.8	2293.7	1795.1	1104.7	1135.3	1196.7
57.5°	28506.2	14368.2	1258.1	1580.3	2861.4	2715.6	2470.1	1979.2	1166.0	1173.7	1135.3
60°	30485.4	14398.9	1250.4	1541.9	2677.3	2347.4	2416.4	2086.6	1189.0	1004.9	1035.6
62.5°	31275.5	13463.0	1304.1	1541.9	2493.1	2194.0	2477.8	2247.7	1227.4	1258.1	1273.4
65°	30378.0	11529.8	1258.1	1380.8	2194.0	1963.8	2493.1	2278.4	1342.5	1265.8	1242.7
67°	28974.2	9934.2	1281.1	1311.8	2040.5	1864.1	2623.6	2393.4	1557.3	1518.9	1495.9
67.5°	28575.3	9512.3	1273.4	1273.4	1986.8	1833.4	2654.2	2393.4	1587.9	1572.6	1541.9
70°	25184.6	7709.6	1304.1	1258.1	1756.7	1741.4	2823.0	2523.8	1825.7	1841.1	1703.0
72.5°	19170.4	5845.5	1296.4	1258.1	1526.6	1664.7	2846.0	2608.2	1986.8	1841.1	1634.0
75°	10893.1	3498.1	1143.0	1097.0	1204.4	1449.9	2661.9	2485.5	1933.1	1649.3	1472.9
77.5°	4503.0	1802.7	1051.0	989.6	997.3	1181.4	2217.0	2316.7	1841.1	1403.8	1327.1
80°	1680.0	1081.6	843.8	790.1	767.1	866.8	1580.3	1848.8	1572.6	1150.7	1051.0
82.5°	874.5	675.1	575.3	575.3	521.6	552.3	851.5	1227.4	1189.0	790.1	621.4
85°	444.9	383.6	329.9	322.2	291.5	260.8	429.6	728.8	682.7	437.3	360.5
87.5°	237.8	214.8	138.1	130.4	107.4	69.0	76.7	145.8	237.8	191.8	138.1
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)