

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: P977482

Luminaire Tested: **EPH-VN-08-E-730-U-SL3**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977482
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-SL3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60674.4 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

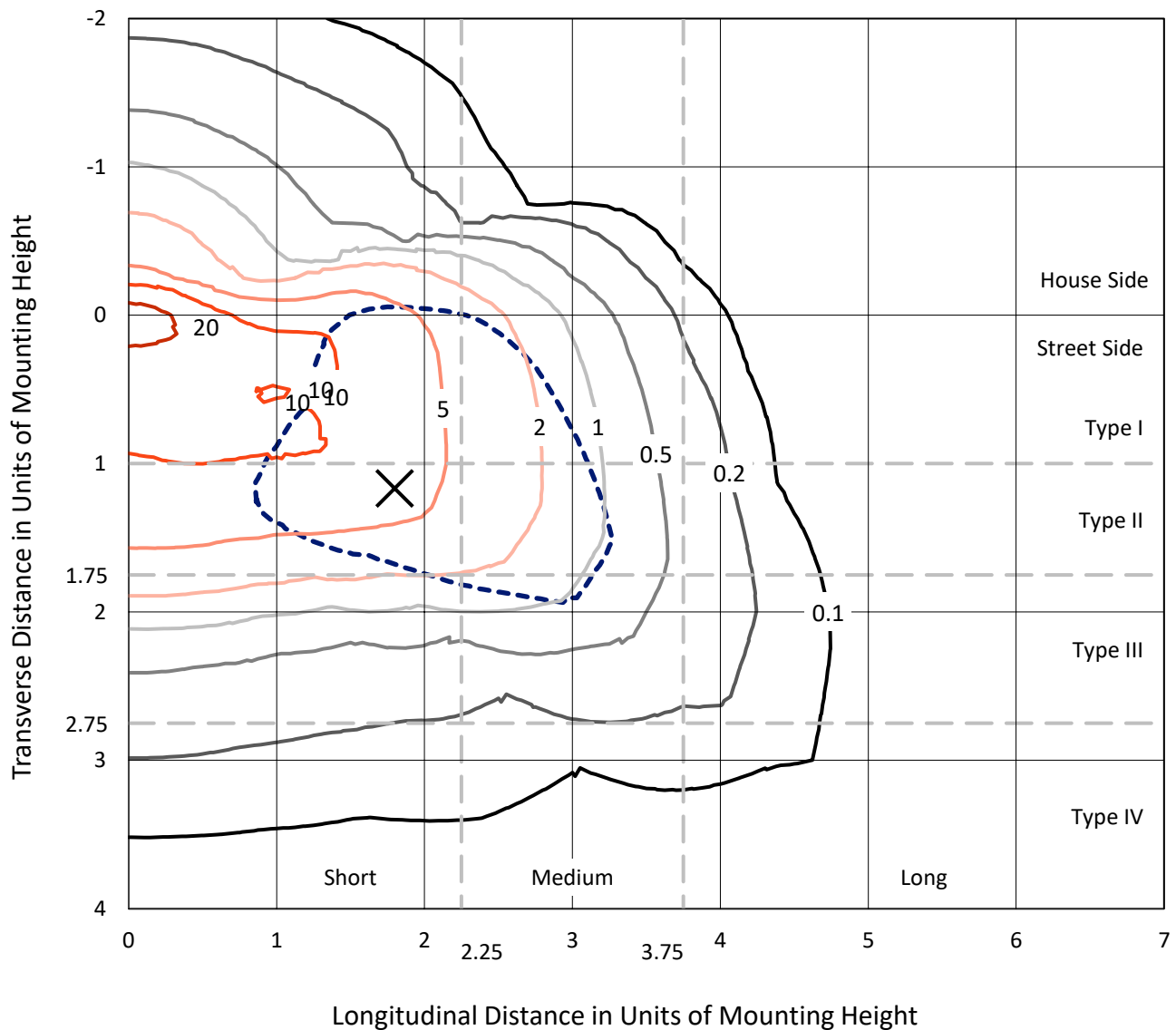
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P977482

CATALOG NUMBER: EPH-VN-08-E-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

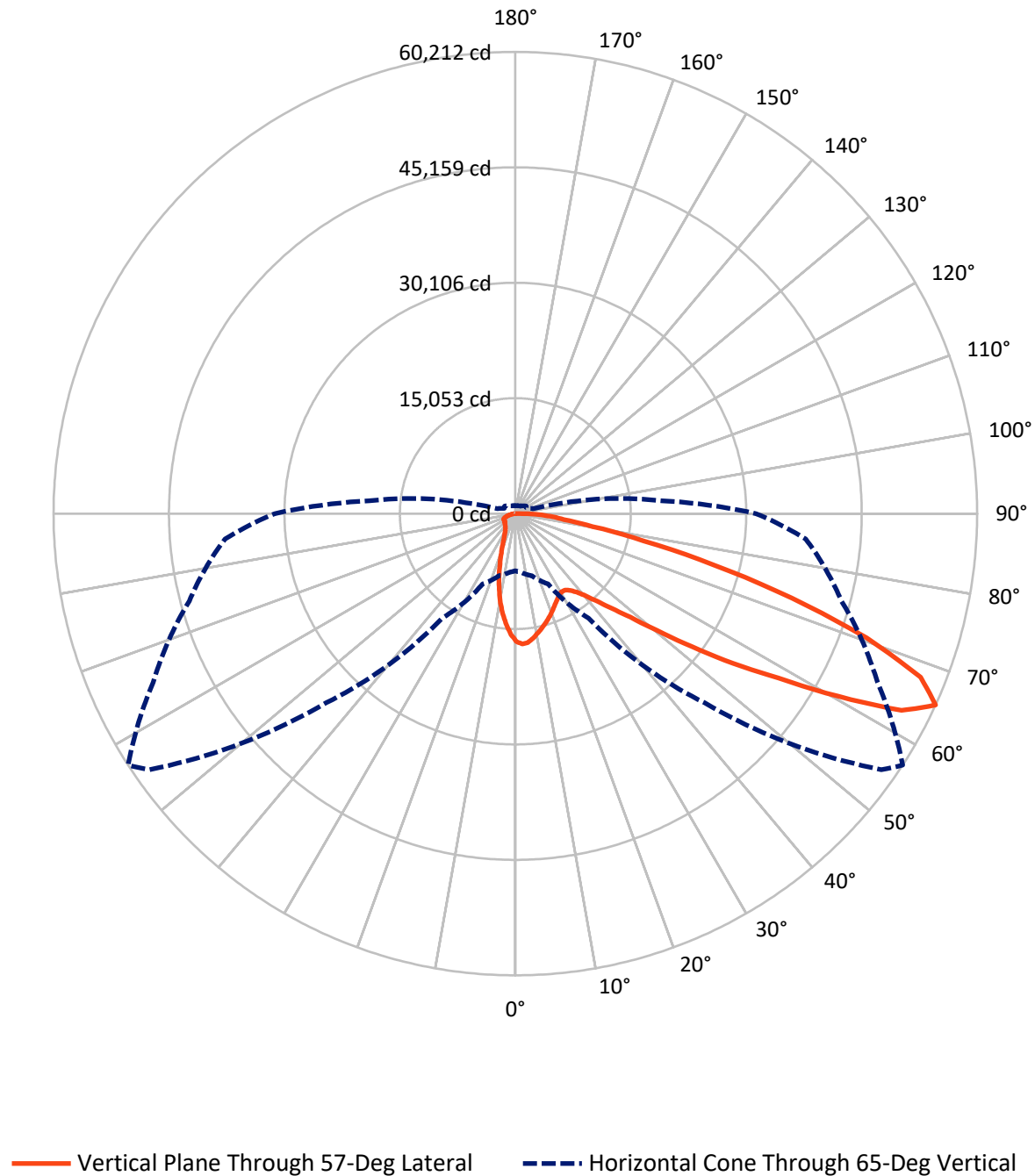


Based on 25 foot mounting height. Maximum calculated value = 26.7 fc
 Type III - Short - N/A

REPORT NUMBER: P977482

CATALOG NUMBER: EPH-VN-08-E-730-U-SL3

Luminous Intensity Polar Plot



REPORT NUMBER: P977482

CATALOG NUMBER: EPH-VN-08-E-730-U-SL3

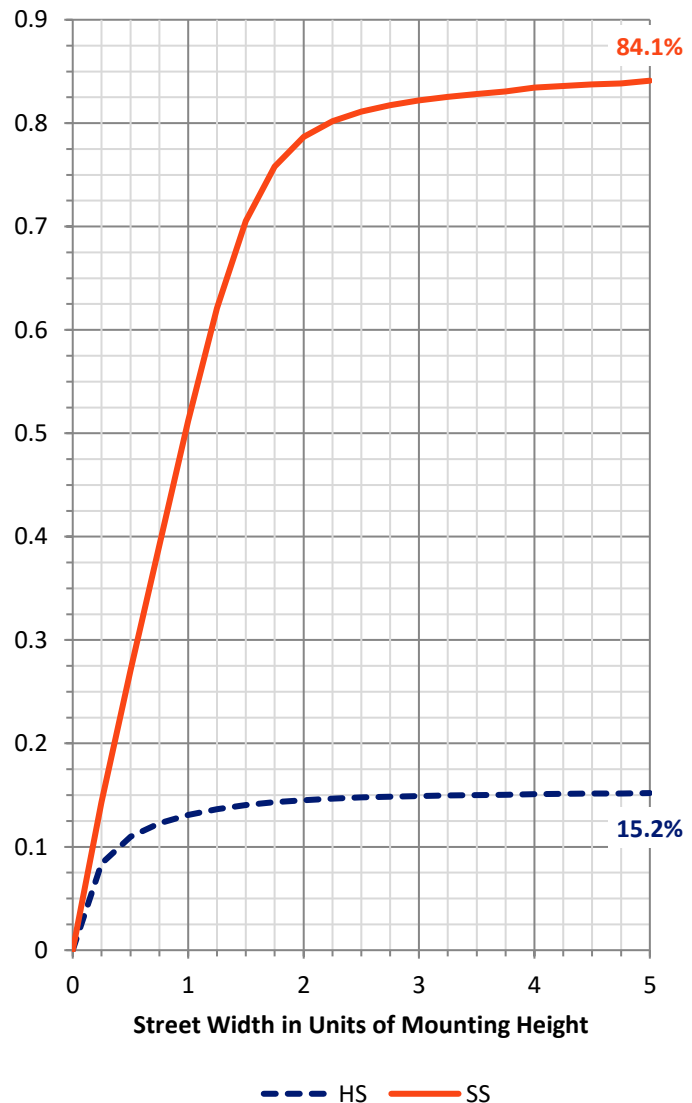
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9305.0	0.0	9305.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	51369.4	0.0	51369.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	60674.4	0.0	60674.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1397.2	2.3
10°-20°	3007.0	5.0
20°-30°	3887.8	6.4
30°-40°	5231.7	8.6
40°-50°	8342.2	13.7
50°-60°	14734.3	24.3
60°-70°	16209.7	26.7
70°-80°	6780.8	11.2
80°-90°	1083.7	1.8
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°	60674.4	100.0
0°-180°	60674.4	100.0

Coefficient of Utilization



REPORT NUMBER: P977482

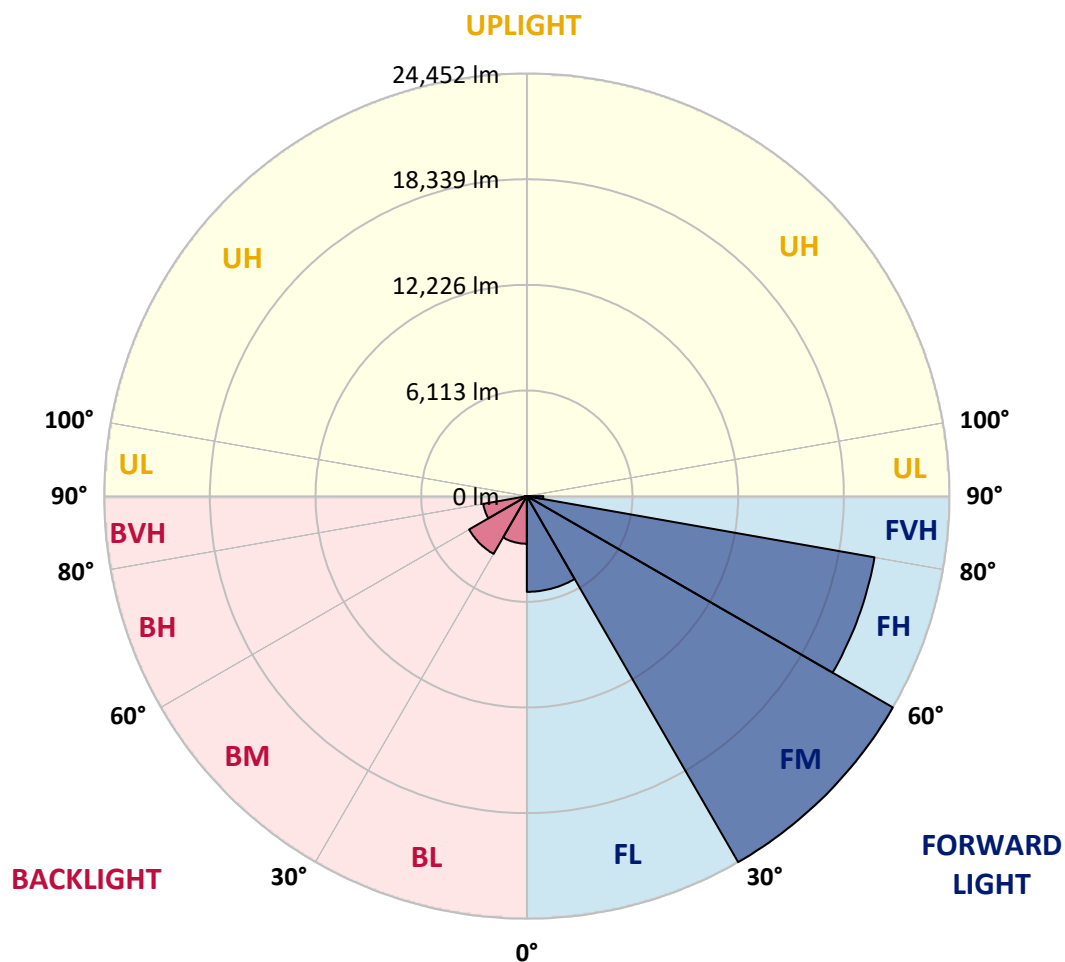
CATALOG NUMBER: EPH-VN-08-E-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5536.3	9.1			
FM	(30°-60°)	24451.7	40.3			
FH	(60°-80°)	20424.8	33.7			G5
FVH	(80°-90°)	956.6	1.6			G5
BL	(0°-30°)	2755.7	4.5	B4/5000		
BM	(30°-60°)	3856.5	6.4	B3/5000		
BH	(60°-80°)	2565.7	4.2	B4/5000		G4/5000
BVH	(80°-90°)	127.1	0.2			G2/225
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: P977482

CATALOG NUMBER: EPH-VN-08-E-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6
2.5°	17135.2	17162.5	17162.5	17217.1	17032.8	17121.5	17107.8	17025.9	17053.2	16909.9	16766.5
5°	16650.5	16630.0	16739.2	16752.9	16896.2	16937.2	16971.3	16916.7	16930.4	16616.3	16479.8
7.5°	15408.0	15401.2	15585.5	15742.5	16042.9	16322.8	16507.1	16452.5	16527.6	16329.6	16008.7
10°	13933.4	14090.4	14281.6	14438.6	14991.6	15346.5	15824.4	15872.2	16158.9	16111.1	15530.9
12.5°	12827.5	12895.7	13039.1	13489.7	13994.8	14581.9	15264.6	15326.1	15606.0	15742.5	15237.3
15°	11919.5	11981.0	12165.3	12499.8	13066.4	13762.7	14629.7	14786.8	15346.5	15394.3	14855.0
17.5°	11257.3	11305.1	11428.0	11762.5	12226.7	13121.0	13940.2	14220.1	14957.4	15189.5	14459.1
20°	10997.9	10895.5	10963.8	11175.4	11639.6	12329.1	13387.3	13633.0	14575.1	15032.5	14083.6
22.5°	10881.8	10793.1	10834.1	10820.4	11189.1	11680.6	12793.3	13052.8	14213.3	14848.2	13749.1
25°	10970.6	10970.6	10929.6	10895.5	10936.5	11257.3	12151.6	12554.4	13728.6	14691.2	13407.7
27.5°	11448.5	11264.1	11284.6	11141.3	11100.3	11100.3	11864.9	12103.8	13571.6	14602.4	13127.9
30°	11755.7	11844.4	11851.2	11639.6	11428.0	11045.7	11598.7	11830.8	13441.9	14711.7	12964.0
32.5°	12540.7	12499.8	12383.7	12342.8	12028.7	11598.7	11728.4	11885.4	13366.8	14957.4	13011.8
35°	13325.8	13305.3	13312.2	13291.7	12964.0	12329.1	12076.5	12288.2	13503.3	15387.5	13175.6
37.5°	14138.2	14192.8	14424.9	14424.9	14076.8	13387.3	13052.8	12991.3	14001.7	16090.7	13564.8
40°	14950.6	15087.1	15380.7	15844.9	15353.4	14711.7	14172.3	14076.8	14602.4	17032.8	14500.0
42.5°	15728.8	15954.1	16534.4	17223.9	17060.1	16418.3	15701.5	15592.3	15838.1	18432.2	15803.9
45°	16725.6	16916.7	17831.5	18889.6	19114.9	18548.3	17708.6	17619.9	17606.2	20480.3	17599.4
47.5°	18241.1	18445.9	19360.7	20425.7	21122.0	21210.7	20268.6	20173.1	19845.4	23245.1	20227.7
50°	20138.9	20473.4	21244.9	22487.3	23497.7	24446.6	24180.4	23900.5	23258.8	26460.5	23559.1
52.5°	21524.8	21934.4	22978.9	24569.5	26351.3	27860.0	28815.7	28815.7	27341.2	29989.9	27566.4
55°	21893.4	22139.2	23456.7	25757.3	28808.9	32625.1	34625.3	34475.1	32201.8	33703.7	32229.1
57.5°	20425.7	20746.5	22344.0	24753.8	30099.2	37082.9	40393.9	40428.0	37513.0	38018.2	36830.3
60°	16384.2	16486.6	18370.8	21593.0	28856.7	40673.8	48272.0	48401.7	43554.7	41861.7	39171.9
62.5°	11325.6	11653.3	13073.2	15899.5	23907.3	40271.0	55870.2	56511.9	48394.9	43889.2	39540.6
65°	7454.8	7652.8	8410.6	10130.9	16643.6	34905.2	58232.2	60212.0	52095.0	44005.3	37997.7
67.5°	5406.8	5440.9	5666.2	6553.7	10001.2	25102.0	54197.6	56989.8	53480.8	43035.9	34379.5
70°	4369.1	4396.4	4478.4	5045.0	6458.1	15708.4	44203.2	48579.2	49323.3	38441.5	27689.3
72.5°	3549.9	3584.0	3686.4	4218.9	5324.9	8738.2	32324.7	37656.4	40120.8	28440.3	18404.9
75°	2792.1	2819.5	3065.2	3590.9	5004.0	6000.7	21442.8	26665.3	26999.8	16623.1	8615.4
77.5°	1911.5	1959.3	2259.7	3044.7	4710.5	5249.8	13366.8	17080.5	15326.1	6505.9	2962.8
80°	1215.2	1283.4	1460.9	2307.4	4164.3	5010.8	8315.0	10199.2	6710.7	2225.5	1426.8
82.5°	716.8	785.1	962.6	1495.1	3270.0	4649.0	5857.4	6383.0	3147.1	1140.1	860.2
85°	396.0	443.7	580.3	901.1	1918.3	4130.2	4690.0	4580.8	1802.3	607.6	539.3
87.5°	129.7	150.2	211.6	361.8	791.9	1945.6	2812.6	2642.0	935.3	279.9	211.6
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: P977482

CATALOG NUMBER: EPH-VN-08-E-730-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6	16684.6
2.5°	16670.9	16650.5	16343.3	16111.1	15715.2	15387.5	15257.8	15080.3	15073.5	14943.8	14909.6
5°	16268.2	16056.5	15585.5	15134.9	14431.8	13960.7	13530.6	13230.3	13107.4	12841.1	12779.7
7.5°	15749.3	15469.4	14745.8	13899.3	13073.2	12335.9	11666.9	10997.9	10622.4	10492.7	10349.4
10°	15210.0	14718.5	13646.7	12697.8	11544.0	10410.8	9359.5	8417.4	7905.4	7543.6	7386.5
12.5°	14779.9	14124.6	12759.2	11339.2	9816.9	8301.3	7079.3	6089.5	5509.2	5236.1	5113.2
15°	14295.2	13428.2	11789.8	9994.4	8096.5	6376.2	5181.5	4403.3	4171.1	4041.4	4021.0
17.5°	13783.2	12779.7	10738.5	8670.0	6417.2	4799.2	4027.8	3713.8	3611.4	3556.7	3529.4
20°	13305.3	12199.4	9659.9	7195.4	5024.5	3850.3	3488.5	3324.6	3317.8	3345.1	3338.3
22.5°	12629.5	11441.6	8594.9	5830.0	4014.1	3351.9	3119.8	3078.9	3119.8	3154.0	3167.6
25°	12247.2	10820.4	7407.0	4628.5	3317.8	2976.5	2901.4	2887.7	2949.2	2990.1	2983.3
27.5°	11851.2	10178.7	6301.1	3706.9	2908.2	2710.2	2696.6	2710.2	2771.7	2833.1	2826.3
30°	11544.0	9666.7	5263.4	3099.3	2594.2	2519.1	2505.4	2519.1	2553.2	2560.0	2560.0
32.5°	11291.5	9059.1	4382.8	2689.7	2403.0	2341.6	2355.2	2348.4	2355.2	2362.1	2368.9
35°	11141.3	8697.3	3659.1	2437.2	2246.0	2198.2	2191.4	2170.9	2177.7	2184.6	2177.7
37.5°	11462.1	8519.8	3085.7	2259.7	2136.8	2095.8	2082.2	2068.5	2048.0	2048.0	2048.0
40°	11946.8	8424.2	2737.5	2143.6	2054.9	2007.1	1966.1	1952.5	1952.5	1959.3	1966.1
42.5°	12909.4	8581.2	2498.6	2054.9	1952.5	1897.8	1856.9	1863.7	1884.2	1904.7	1891.0
45°	14302.1	9059.1	2389.4	1986.6	1891.0	1815.9	1788.6	1781.8	1802.3	1836.4	1863.7
47.5°	16124.8	9803.2	2348.4	1925.1	1850.1	1747.6	1713.5	1734.0	1761.3	1809.1	1788.6
50°	19108.1	11475.8	2382.5	1870.5	1788.6	1713.5	1672.6	1652.1	1672.6	1706.7	1720.3
52.5°	23006.2	14513.7	2512.2	1843.2	1747.6	1686.2	1617.9	1583.8	1604.3	1631.6	1631.6
55°	27668.8	18664.3	2874.1	1809.1	1679.4	1645.2	1570.2	1501.9	1515.5	1515.5	1508.7
57.5°	31778.5	21797.8	3304.1	1761.3	1638.4	1590.6	1495.1	1413.1	1399.5	1406.3	1413.1
60°	33621.8	22630.7	3509.0	1747.6	1638.4	1522.4	1392.7	1310.7	1290.3	1276.6	1276.6
62.5°	33300.9	21190.2	3092.5	1686.2	1679.4	1467.8	1297.1	1208.3	1181.0	1153.7	1160.5
65°	31362.1	19135.4	2437.2	1604.3	1686.2	1433.6	1201.5	1112.8	1065.0	1030.8	1024.0
67.5°	27819.0	16336.4	1932.0	1542.8	1617.9	1372.2	1119.6	1017.2	976.2	942.1	928.4
70°	21763.7	12807.0	1679.4	1460.9	1454.1	1222.0	1024.0	935.3	873.8	832.9	832.9
72.5°	14110.9	8096.5	1440.4	1297.1	1256.1	1024.0	887.5	832.9	785.1	750.9	750.9
75°	6389.8	3761.5	1160.5	1085.5	1024.0	819.2	750.9	723.6	682.7	648.5	648.5
77.5°	2293.8	1604.3	867.0	853.3	764.6	634.9	607.6	587.1	559.8	525.7	525.7
80°	1283.4	1017.2	648.5	621.2	532.5	471.0	436.9	436.9	423.3	402.8	396.0
82.5°	812.4	662.2	477.9	416.4	348.2	314.0	300.4	293.6	286.7	259.4	252.6
85°	512.0	450.6	314.0	245.8	204.8	157.0	150.2	143.4	129.7	116.1	116.1
87.5°	232.1	259.4	122.9	75.1	54.6	34.1	20.5	6.8	0.0	0.0	0.0
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)