

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: P977479

Luminaire Tested: **EPH-VN-08-E-740-U-SL2**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977479
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-740-U-SL2
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67328.9 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

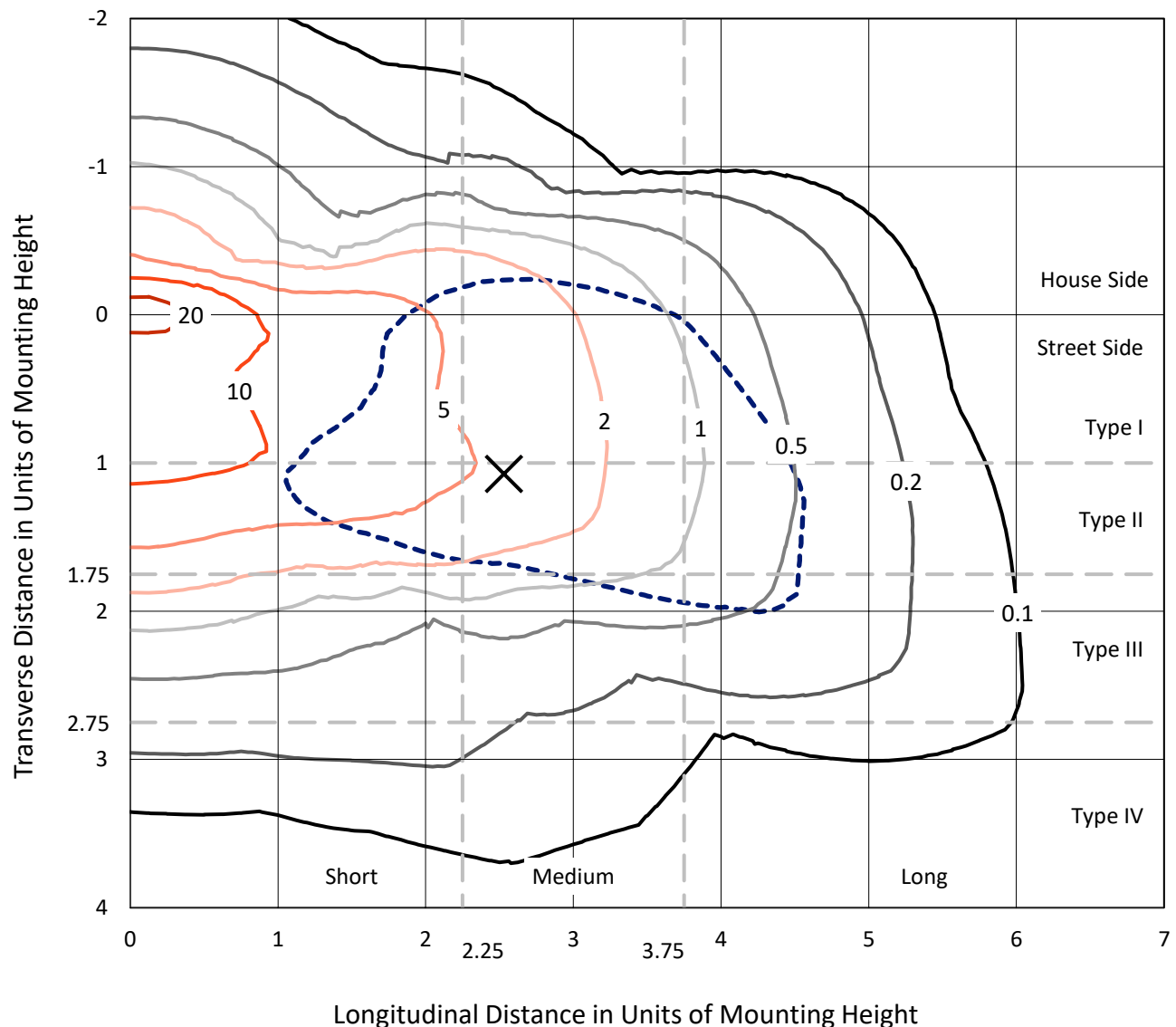
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P977479

CATALOG NUMBER: EPH-VN-08-E-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

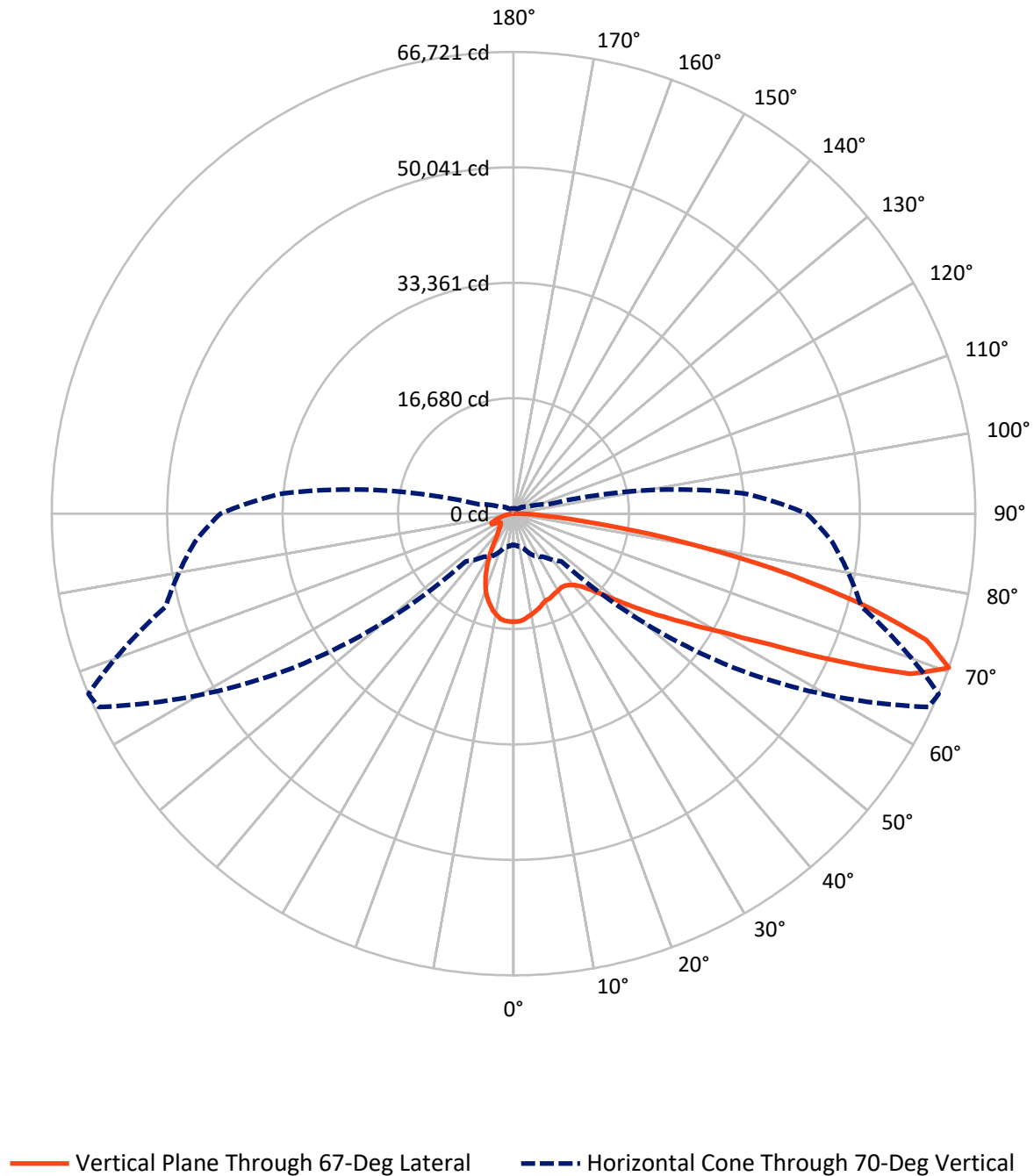


Based on 25 foot mounting height. Maximum calculated value = 25.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P977479

CATALOG NUMBER: EPH-VN-08-E-740-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P977479

CATALOG NUMBER: EPH-VN-08-E-740-U-SL2

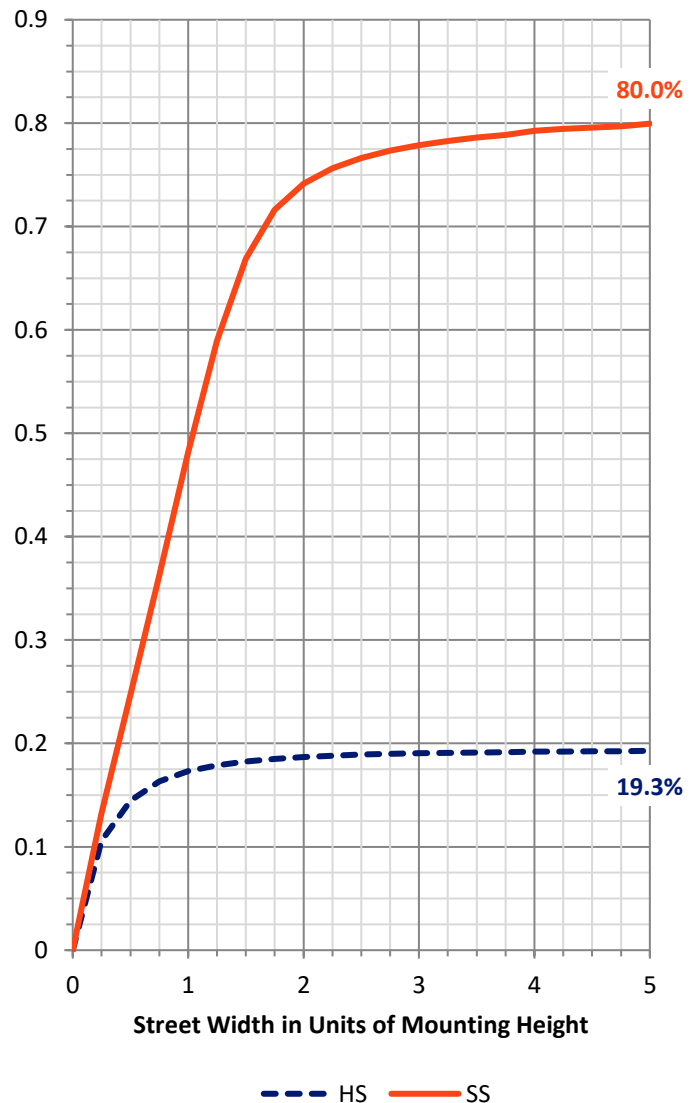
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13112.9	0.0	13112.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	54215.9	0.0	54215.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	67328.9	0.0	67328.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1359.9	2.0
10°-20°	3257.0	4.8
20°-30°	4398.4	6.5
30°-40°	5885.4	8.7
40°-50°	8654.4	12.9
50°-60°	13490.0	20.0
60°-70°	16617.5	24.7
70°-80°	11741.7	17.4
80°-90°	1924.5	2.9
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°	67328.9	100.0
0°-180°	67328.9	100.0

Coefficient of Utilization



REPORT NUMBER: P977479

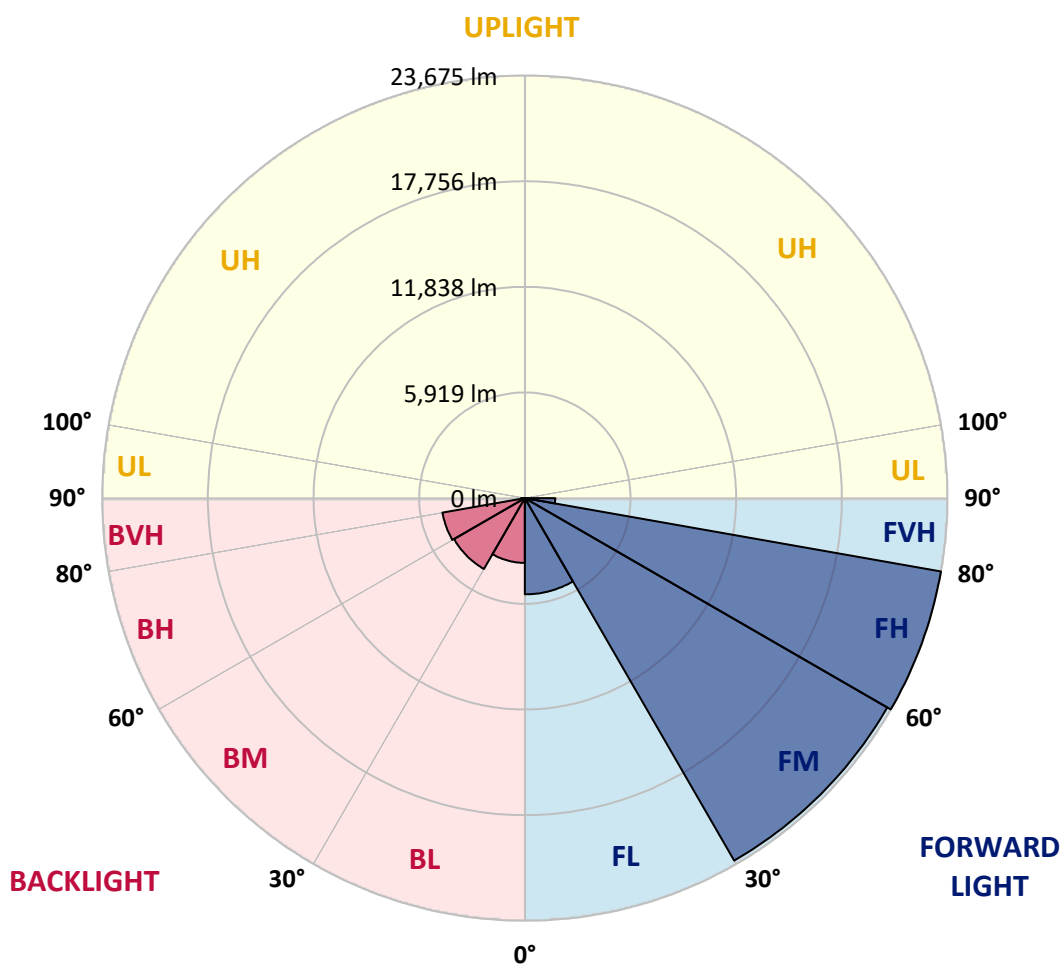
CATALOG NUMBER: EPH-VN-08-E-740-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5389.2	8.0			
FM	(30°-60°)	23449.2	34.8			
FH	(60°-80°)	23675.1	35.2			G5
FVH	(80°-90°)	1702.5	2.5			G5
BL	(0°-30°)	3626.2	5.4	B4/5000		
BM	(30°-60°)	4580.6	6.8	B3/5000		
BH	(60°-80°)	4684.1	7.0	B4/5000		G4/5000
BVH	(80°-90°)	222.0	0.3			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 Medium



REPORT NUMBER: P977479

CATALOG NUMBER: EPH-VN-08-E-740-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4
2.5°	14513.0	14677.0	14736.7	14826.1	15057.2	15228.6	15333.0	15452.3	15593.9	15713.1	15787.7
5°	13499.3	13588.7	13730.4	13827.3	14118.0	14580.1	14893.2	15400.1	15385.2	15571.5	15854.8
7.5°	12515.4	12604.8	12671.9	12865.7	13283.1	13700.5	14274.5	15094.5	15034.8	15467.2	15906.9
10°	11904.1	11837.0	11859.4	12187.4	12515.4	12985.0	13708.0	14542.9	14759.0	15429.9	16056.0
12.5°	11330.2	11255.6	11434.5	11643.2	12045.7	12470.6	13335.3	14088.2	14416.1	15295.7	16123.1
15°	10972.4	10920.2	11143.8	11233.3	11710.3	12217.2	12828.4	13745.3	14103.1	15131.7	16018.8
17.5°	10771.1	10815.8	10897.8	11091.6	11397.2	11829.6	12500.4	13514.2	13670.7	14930.5	15996.4
20°	10808.4	10860.6	10868.0	10950.0	11158.7	11494.1	12179.9	13268.2	13372.6	14893.2	16056.0
22.5°	11106.5	11032.0	11061.8	11009.6	11069.3	11330.2	11933.9	12940.2	13342.8	14580.1	15929.3
25°	11553.8	11449.4	11434.5	11255.6	11143.8	11218.3	11889.2	12858.2	13119.1	14483.2	15921.9
27.5°	12343.9	12187.4	12187.4	11919.0	11464.3	11345.1	11762.5	12724.1	12955.1	14393.8	15750.4
30°	13104.2	13104.2	13111.7	12731.5	12224.6	11635.8	11814.7	12671.9	12821.0	14125.4	15519.3
32.5°	14028.5	14006.2	13968.9	13782.5	12999.9	12120.3	12068.1	12604.8	12679.3	14036.0	15452.3
35°	14930.5	14870.8	15161.5	14997.6	14200.0	13067.0	12329.0	12634.6	12798.6	13901.8	15243.5
37.5°	15608.8	15646.1	16249.8	16354.2	15668.4	14140.3	13067.0	12932.8	13089.3	14095.6	15243.5
40°	16488.4	16637.4	17204.0	17554.3	17136.9	15556.6	14237.2	13432.2	13544.0	14527.9	15571.5
42.5°	17643.7	17770.5	18493.5	18948.2	18828.9	17360.5	15392.6	14475.8	14386.3	15251.0	16063.5
45°	19171.8	19194.2	19924.7	20550.8	20796.8	19246.4	17226.3	15795.1	15720.6	16495.8	16965.4
47.5°	20990.6	20968.2	21422.9	22093.8	22757.2	21497.5	19335.8	17800.3	17531.9	18277.3	18463.7
50°	22749.8	22652.9	22757.2	23614.4	24889.1	24315.1	21900.0	20252.7	19984.3	20394.3	20714.8
52.5°	23718.8	23838.1	23554.8	24687.8	27155.1	27647.1	25299.1	23182.1	22951.0	23152.3	23711.3
55°	23040.5	23286.5	23100.1	24173.5	28146.5	31709.5	29696.9	26573.7	26275.5	26201.0	27117.8
57.5°	20155.8	20603.0	20640.3	22339.8	27803.6	34855.1	35883.8	30576.5	30129.3	29369.0	30315.6
60°	15474.6	15921.9	16264.7	18277.3	24866.7	36733.6	43054.6	36271.4	34795.5	32827.6	33394.2
62.5°	10845.6	11151.3	11494.1	12731.5	19171.8	35630.4	49256.4	44292.0	41571.3	36472.7	37180.8
65°	7901.3	8139.8	8490.2	9220.7	11777.4	29480.8	52133.6	53818.3	51239.2	41109.1	41019.7
67.5°	5948.3	6097.4	6559.6	7729.9	8162.2	18210.3	49152.0	63881.2	61794.1	46259.9	44105.6
70°	4502.2	4629.0	5061.3	6663.9	7625.5	9764.8	38776.0	66124.9	66721.2	52036.7	46177.9
72.5°	3100.9	3242.5	3727.0	5553.3	7260.2	7744.8	24337.5	60072.2	62330.8	54414.6	43956.5
75°	1900.8	1997.7	2280.9	4211.5	7208.1	7573.3	13394.9	49226.6	51619.3	50277.6	38455.5
77.5°	1341.7	1334.3	1386.5	2467.3	6246.5	7618.0	8259.1	36070.2	38395.8	37054.1	26096.6
80°	976.5	983.9	1036.1	1475.9	4241.4	7744.8	6507.4	24158.6	24851.8	19320.9	10294.0
82.5°	588.9	618.7	745.4	998.8	2549.3	6991.9	6015.4	13424.7	12560.1	6201.8	2832.5
85°	313.1	313.1	439.8	633.6	1356.6	5217.8	5791.8	6388.1	5352.0	1923.1	1051.0
87.5°	74.5	74.5	126.7	253.4	544.1	2497.1	3950.6	2541.8	2035.0	648.5	432.3
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: P977479

CATALOG NUMBER: EPH-VN-08-E-740-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4	15586.4
2.5°	15757.9	15668.4	15780.2	15556.6	15377.7	15385.2	15109.4	15094.5	15057.2	14863.4	14930.5
5°	15936.8	15862.2	15735.5	15489.5	15094.5	14699.4	14460.9	14155.2	14028.5	13961.4	13991.3
7.5°	16108.2	15974.0	15608.8	15265.9	14654.7	13909.3	13476.9	13067.0	12545.2	12485.5	12381.2
10°	16152.9	15869.7	15400.1	14669.6	13857.1	13029.7	12045.7	11285.4	10882.9	10569.8	10450.6
12.5°	16085.8	15966.6	15064.6	14125.4	12895.5	11598.5	10450.6	9377.2	8631.8	8244.2	8139.8
15°	16078.4	15869.7	14691.9	13298.0	11725.2	10033.2	8400.7	7111.2	6328.5	6008.0	6008.0
17.5°	16085.8	15586.4	14252.1	12463.2	10346.2	8057.8	6261.4	5202.9	4770.6	4725.9	4763.1
20°	15936.8	15377.7	13790.0	11479.2	8616.9	6052.7	4547.0	4114.6	4114.6	4174.3	4196.6
22.5°	15802.6	15064.6	13059.5	10264.2	6857.7	4383.0	3697.2	3570.5	3712.1	3816.5	3861.2
25°	15616.2	14803.7	12314.1	9004.5	5217.8	3533.2	3212.7	3242.5	3376.7	3563.0	3548.1
27.5°	15347.9	14349.1	11427.1	7543.5	3883.6	3048.7	2966.7	2981.6	3123.2	3205.2	3190.3
30°	15042.3	13886.9	10607.1	6090.0	3078.5	2795.3	2787.8	2825.1	2847.4	2892.2	2884.7
32.5°	14654.7	13275.7	9735.0	4733.3	2772.9	2653.6	2623.8	2601.5	2623.8	2616.4	2594.0
35°	14378.9	12947.7	8848.0	3607.8	2601.5	2526.9	2504.6	2467.3	2437.5	2392.8	2385.3
37.5°	14304.3	12619.7	7916.2	2944.4	2467.3	2430.0	2355.5	2288.4	2251.1	2228.8	2213.9
40°	14259.6	12403.5	7006.8	2586.6	2355.5	2318.2	2228.8	2139.3	2102.0	2079.7	2087.1
42.5°	14416.1	12284.3	6082.5	2407.7	2258.6	2191.5	2094.6	1990.2	1982.8	1967.9	1990.2
45°	14967.7	12433.4	5225.3	2280.9	2161.7	2049.9	1923.1	1871.0	1863.5	1848.6	1863.5
47.5°	16220.0	12806.1	4494.8	2198.9	2057.3	1960.4	1826.2	1751.7	1744.2	1736.8	1736.8
50°	17949.4	13954.0	3883.6	2102.0	1990.2	1856.1	1729.3	1647.3	1632.4	1602.6	1602.6
52.5°	20662.6	15884.6	3518.3	2049.9	1871.0	1759.2	1625.0	1535.5	1498.3	1468.4	1468.4
55°	23718.8	18277.3	3451.2	1960.4	1744.2	1639.9	1520.6	1431.2	1393.9	1356.6	1341.7
57.5°	27199.8	21445.3	3928.3	1900.8	1654.8	1520.6	1386.5	1304.5	1274.6	1237.4	1222.5
60°	30442.4	24605.8	5411.6	1811.3	1572.8	1408.8	1274.6	1192.6	1155.4	1118.1	1118.1
62.5°	34191.7	28519.2	7923.7	1811.3	1498.3	1289.6	1155.4	1095.7	1073.4	1036.1	1028.7
65°	38626.9	32566.8	9757.4	1923.1	1475.9	1185.2	1043.6	983.9	961.6	939.2	931.8
67.5°	42003.6	34892.4	8393.3	2221.3	1572.8	1095.7	931.8	894.5	879.6	857.2	842.3
70°	42361.4	33476.2	5061.3	2400.2	1669.7	1006.3	834.9	797.6	797.6	775.2	760.3
72.5°	39148.7	29704.4	3406.5	2139.3	1513.2	901.9	738.0	708.1	693.2	678.3	670.9
75°	32760.6	25194.7	2690.9	1707.0	1162.8	745.4	641.0	611.2	588.9	581.4	566.5
77.5°	22004.4	16376.6	1990.2	1334.3	857.2	603.8	536.7	506.9	484.5	477.1	454.7
80°	8452.9	6239.0	1282.1	969.0	603.8	477.1	424.9	395.1	380.2	357.8	342.9
82.5°	2489.7	2020.0	715.6	596.3	387.6	328.0	305.6	283.3	260.9	238.5	231.1
85°	1028.7	924.3	439.8	313.1	238.5	193.8	178.9	156.5	134.2	119.3	104.4
87.5°	477.1	395.1	201.3	119.3	82.0	44.7	22.4	7.5	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)