

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: P977440

Luminaire Tested: **EPH-VN-08-E-750-U-T2R**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977440
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-T2R
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R
distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69462.2 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

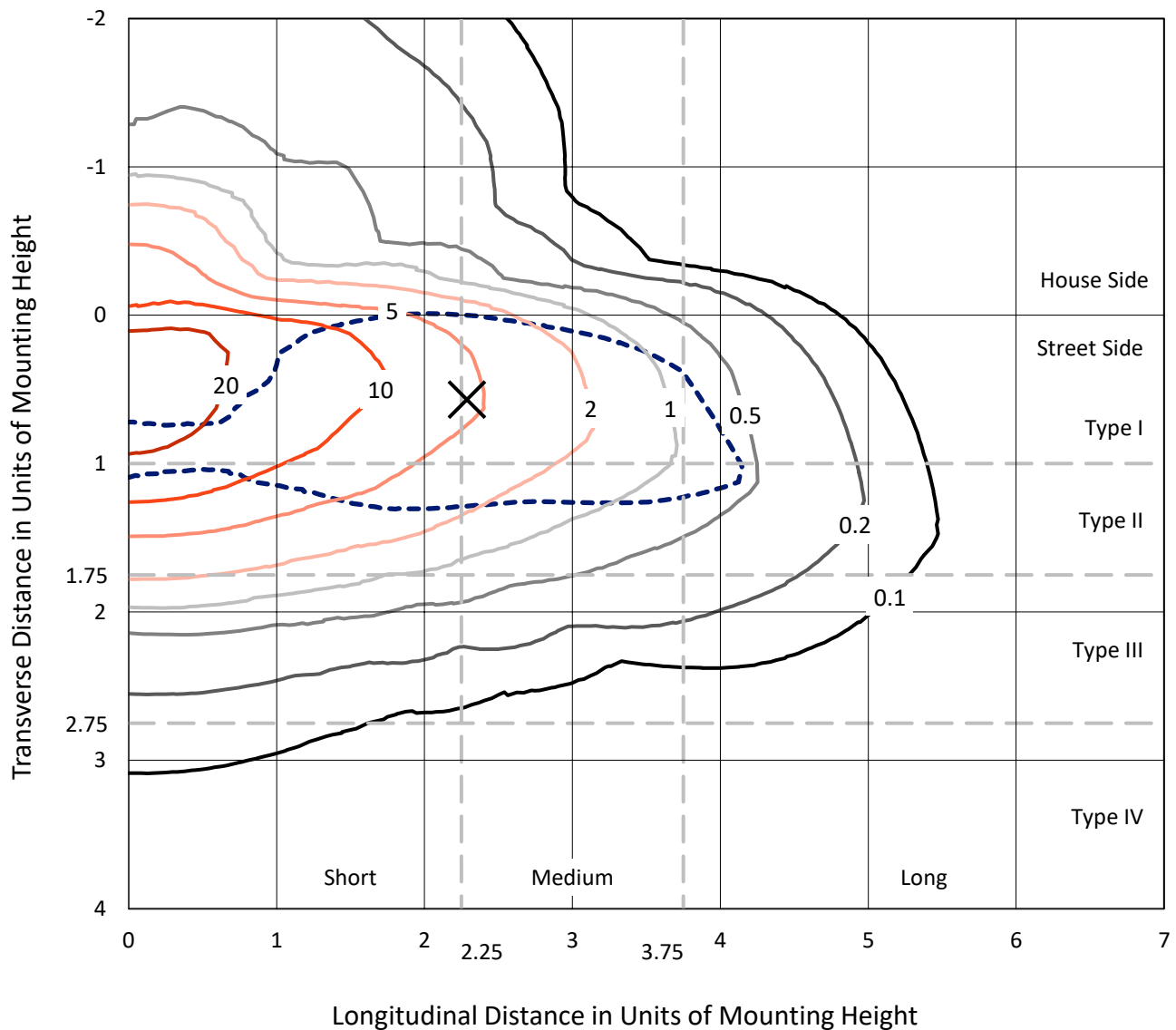
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

REPORT NUMBER: P977440

CATALOG NUMBER: EPH-VN-08-E-750-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

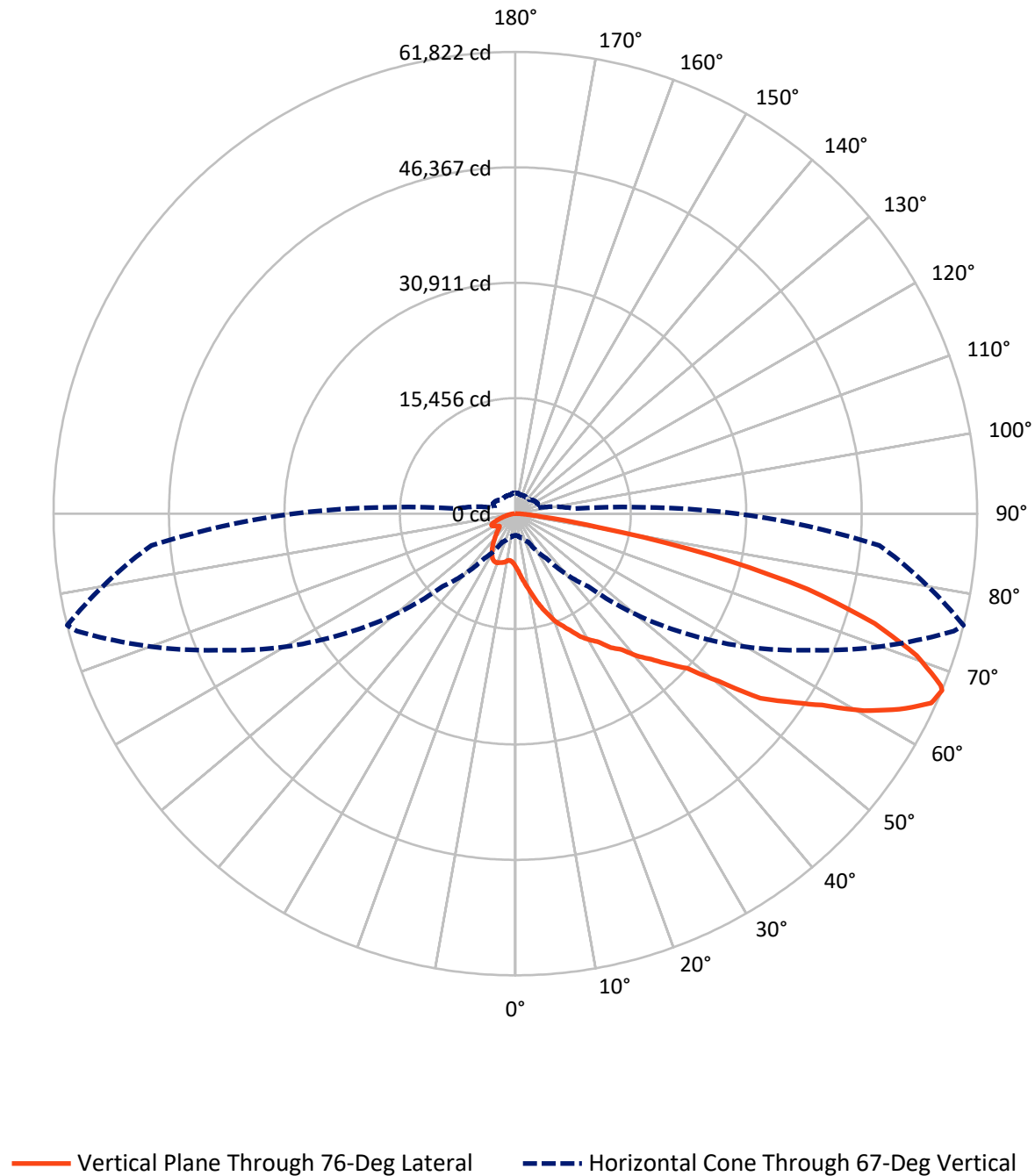
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 fc
Type II - Medium - N/A

REPORT NUMBER: P977440
CATALOG NUMBER: EPH-VN-08-E-750-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P977440

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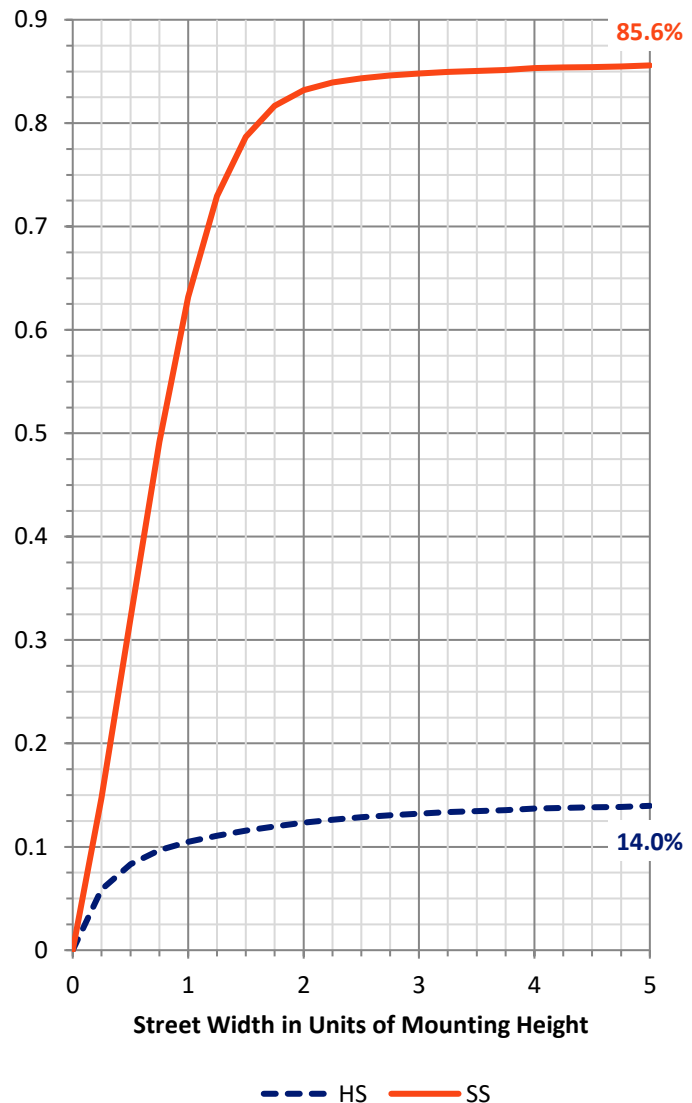
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9881.9	0.0	9881.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	59580.3	0.0	59580.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	69462.2	0.0	69462.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.4	1.2
10°-20°	3088.2	4.4
20°-30°	5741.4	8.3
30°-40°	9101.4	13.1
40°-50°	12588.0	18.1
50°-60°	15484.1	22.3
60°-70°	14408.6	20.7
70°-80°	7230.2	10.4
80°-90°	996.9	1.4
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°	69462.2	100.0
0°-180°	69462.2	100.0

Coefficient of Utilization



REPORT NUMBER: P977440

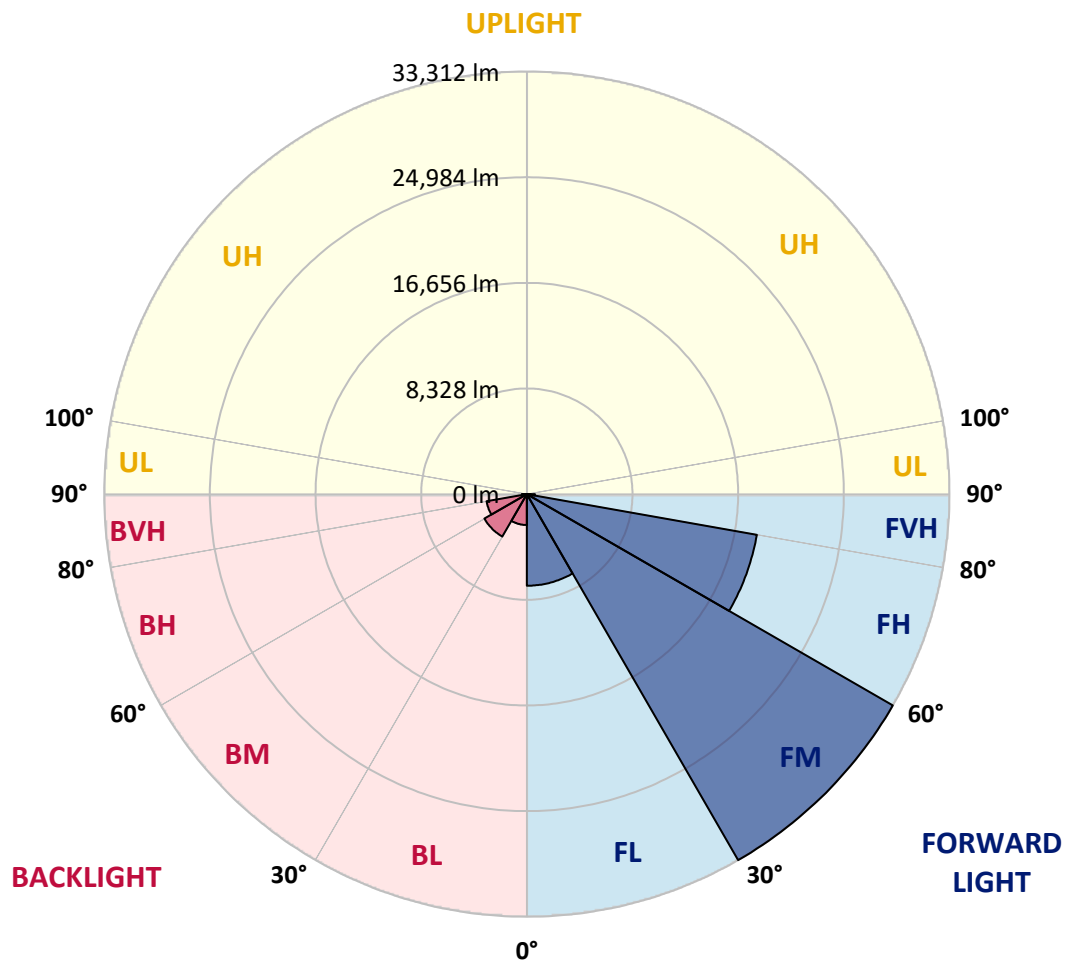
CATALOG NUMBER: EPH-VN-08-E-750-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7219.5	10.4			
FM	(30°-60°)	33311.8	48.0			
FH	(60°-80°)	18413.8	26.5			G5
FVH	(80°-90°)	635.2	0.9			G4/750
BL	(0°-30°)	2433.5	3.5	B3/2500		
BM	(30°-60°)	3861.6	5.6	B3/5000		
BH	(60°-80°)	3225.0	4.6	B4/5000		G4/5000
BVH	(80°-90°)	361.8	0.5			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 II Medium





REPORT NUMBER: P977440

CATALOG NUMBER: EPH-VN-08-E-750-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4
2.5°	9863.1	9744.4	9625.6	9372.3	9285.2	9047.8	8612.4	8129.5	7733.7	7678.3	7401.3
5°	12237.8	12063.7	12024.1	11881.6	11430.4	10971.3	10258.9	9483.1	8517.4	8588.6	7638.7
7.5°	14018.9	13916.0	13702.3	13567.7	13298.5	12689.0	11952.9	10923.8	9696.9	9459.4	8169.1
10°	15364.6	15222.1	15214.2	15095.4	14952.9	14327.6	13765.6	12380.3	10805.1	10480.5	8818.2
12.5°	16045.3	16021.6	16441.1	16441.1	16385.7	16124.5	15158.8	13892.2	11857.9	11747.0	9570.2
15°	16781.5	16583.6	16947.7	17224.8	17367.3	17501.8	16702.3	15364.6	13203.6	12989.8	10377.6
17.5°	16781.5	16765.7	17129.8	17588.9	18333.0	18507.1	18071.8	16718.2	14319.7	14161.4	11264.2
20°	16496.5	16726.1	16979.4	17596.8	18404.2	19108.7	19235.4	18103.4	15554.5	15427.9	12269.5
22.5°	17826.4	17604.7	17866.0	18103.4	18728.8	19797.4	20145.7	19322.5	16852.7	16369.9	13179.8
25°	20058.6	19908.2	19718.3	19370.0	19631.2	20098.2	20628.6	20224.9	17961.0	17422.7	14058.5
27.5°	22235.5	22243.4	21831.8	21071.9	20509.8	20604.8	21230.2	21016.5	18895.0	18657.5	14660.1
30°	25330.6	25140.6	24681.5	23652.4	22552.1	21649.7	21546.8	21752.6	20082.4	19623.3	15522.9
32.5°	27649.9	27689.5	27040.4	25560.1	24056.1	23320.0	22417.5	22504.6	20834.4	20494.0	16211.6
35°	29525.9	29478.4	29019.3	27792.4	26011.3	25124.8	23905.7	23407.0	22583.8	22045.5	17264.4
37.5°	31552.4	31164.5	30420.4	29035.2	27895.3	26668.3	25481.0	24356.9	23747.4	23098.3	18166.8
40°	32367.7	32367.7	31370.3	30737.1	29383.5	28457.3	27689.5	25607.6	25164.3	25037.7	19322.5
42.5°	31789.9	32146.1	31734.4	31014.1	30460.0	29288.5	29082.7	26905.8	26913.7	26660.4	20707.7
45°	31734.4	31243.7	30903.3	31085.4	30824.1	30760.8	31283.2	28702.7	28750.2	28718.5	22567.9
47.5°	30143.4	29921.7	30428.3	30729.1	30942.9	31924.4	33428.4	30847.9	31188.3	30950.8	24713.1
50°	28560.2	28520.6	28837.3	29929.6	30855.8	32470.6	35470.7	34156.7	35272.8	35257.0	28599.8
52.5°	24222.4	24641.9	25884.7	28196.1	30483.8	33214.7	37014.3	38383.7	40513.1	41090.9	31821.5
55°	20074.5	19852.8	21689.3	25045.6	28861.0	33507.6	38739.9	40924.7	44059.3	44478.9	35130.3
57.5°	15617.9	16029.5	17478.1	20699.8	25504.7	32059.0	40006.5	43434.0	48064.7	48389.3	38969.5
60°	11652.1	11707.5	13298.5	15894.9	21040.2	28789.8	40418.1	46006.6	52655.9	53582.1	42990.7
62.5°	7330.0	7662.5	8873.6	11430.4	15839.5	24214.4	38573.7	47566.0	57468.7	57714.1	47043.6
65°	3950.0	4163.7	5074.0	6680.9	11066.3	18317.2	33681.7	46632.0	59732.6	61189.1	48848.4
67°	2920.9	2960.5	3380.0	4266.6	7401.3	13789.3	28085.3	43251.9	60761.7	61822.4	48919.7
67.5°	2738.9	2794.3	3126.7	3831.2	6562.2	12696.9	26620.8	42048.7	60302.6	61442.4	48365.5
70°	2343.1	2358.9	2438.1	2636.0	3680.8	7638.7	18127.2	34457.5	55893.5	56985.9	44478.9
72.5°	2081.9	2097.7	2129.4	2168.9	2493.5	4417.0	11026.7	26517.9	48579.3	50320.7	38375.8
75°	1828.6	1884.0	1899.8	1868.1	2121.4	2873.4	5865.6	19488.7	39626.5	40473.5	29842.6
77.5°	1551.5	1575.2	1606.9	1638.6	1891.9	2145.2	2818.0	13156.1	27198.7	26684.2	16140.3
80°	1306.1	1314.0	1337.8	1361.5	1638.6	1638.6	1599.0	7108.4	11881.6	11359.2	5454.0
82.5°	934.1	989.5	1044.9	1108.2	1361.5	1100.3	1044.9	3166.3	3760.0	3577.9	1844.4
85°	364.1	443.3	688.7	759.9	862.8	593.7	696.6	1369.4	1567.3	1551.5	688.7
87.5°	63.3	71.2	190.0	292.9	316.6	205.8	332.5	490.8	585.8	633.3	253.3
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: P977440

CATALOG NUMBER: EPH-VN-08-E-750-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4	7108.4
2.5°	7171.7	6926.3	6633.4	6340.6	6150.6	5849.8	5826.0	5644.0	5620.2	5556.9	5588.6
5°	7227.1	6934.2	6340.6	5873.5	5659.8	5485.7	5525.2	5446.1	5422.3	5382.7	5319.4
7.5°	7662.5	7084.6	6198.1	5794.4	5636.1	5556.9	5556.9	5461.9	5390.7	5438.2	5485.7
10°	7947.5	7155.9	6308.9	5905.2	5778.5	5604.4	5667.7	5549.0	5588.6	5493.6	5493.6
12.5°	8406.6	7559.6	6538.5	6071.4	5865.6	5707.3	5770.6	5636.1	5604.4	5612.3	5588.6
15°	9024.0	7828.7	6641.4	6166.4	6023.9	5826.0	5778.5	5659.8	5541.1	5501.5	5549.0
17.5°	9601.9	8161.2	6712.6	6221.8	5992.3	5770.6	5715.2	5564.8	5525.2	5406.5	5311.5
20°	10290.5	8557.0	6807.6	6269.3	5873.5	5651.9	5509.4	5359.0	5224.4	5153.2	5184.8
22.5°	10749.7	8762.8	6855.1	6174.3	5699.4	5493.6	5192.8	5089.9	4899.9	4820.7	4757.4
25°	11501.7	9016.1	6736.3	5913.1	5390.7	5058.2	4789.1	4646.6	4512.0	4409.1	4377.4
27.5°	11691.6	9206.1	6459.3	5469.8	4899.9	4551.6	4322.0	4147.9	4060.8	3902.5	3870.8
30°	12245.7	9016.1	6047.7	4931.5	4432.8	4076.6	3847.1	3720.4	3514.6	3475.0	3388.0
32.5°	12602.0	9071.5	5525.2	4409.1	3894.6	3577.9	3427.5	3300.9	3245.5	3055.5	3008.0
35°	13195.6	8881.5	4994.9	3926.2	3451.3	3205.9	3079.2	3039.7	2857.6	2770.5	2691.4
37.5°	13575.6	8770.7	4464.5	3380.0	2968.4	2865.5	2905.1	2738.9	2517.2	2351.0	2295.6
40°	14240.5	8731.1	3862.9	2928.8	2636.0	2612.2	2738.9	2422.2	2018.5	1876.0	1796.9
42.5°	15198.3	8462.0	3395.9	2525.1	2374.7	2477.6	2501.4	2018.5	1789.0	1670.2	1614.8
45°	16116.6	8517.4	2936.8	2089.8	2066.0	2216.4	2161.0	1709.8	1575.2	1488.2	1535.7
47.5°	17881.8	8794.5	2485.6	1741.5	1860.2	2002.7	1678.1	1527.7	1401.1	1337.8	1345.7
50°	20612.7	9063.6	2089.8	1591.1	1757.3	1812.7	1440.7	1385.3	1377.3	1250.7	1242.8
52.5°	22251.3	8960.7	2018.5	1781.1	1884.0	1812.7	1567.3	1527.7	1464.4	1409.0	1345.7
55°	24855.6	9261.5	2168.9	2081.9	2137.3	1741.5	1757.3	1741.5	1694.0	1551.5	1591.1
57.5°	26929.6	9459.4	2366.8	2327.2	2295.6	1812.7	1836.5	1844.4	1812.7	1749.4	1804.8
60°	29779.2	9855.2	2572.6	2580.6	2588.5	1971.0	2010.6	2058.1	2050.2	2026.4	2042.3
62.5°	31528.6	9673.1	2802.2	2928.8	2889.3	2295.6	2287.7	2319.3	2319.3	2358.9	2382.7
65°	31267.4	9000.3	2920.9	3237.6	3031.8	2533.1	2533.1	2548.9	2556.8	2636.0	2643.9
67°	29700.1	7797.1	2857.6	3285.1	3031.8	2628.0	2628.0	2643.9	2588.5	2794.3	2731.0
67.5°	28971.8	7440.9	2802.2	3245.5	3008.0	2620.1	2620.1	2628.0	2580.6	2778.4	2715.1
70°	25196.0	5525.2	2414.3	2873.4	2786.4	2548.9	2548.9	2501.4	2461.8	2723.0	2667.6
72.5°	21507.2	4013.3	1939.4	2446.0	2517.2	2453.9	2469.7	2351.0	2240.2	2422.2	2374.7
75°	16472.8	2952.6	1511.9	1884.0	2129.4	2295.6	2398.5	2097.7	1955.2	2002.7	1915.6
77.5°	9190.2	1923.5	1195.3	1393.2	1622.7	2137.3	2303.5	1891.9	1599.0	1543.6	1543.6
80°	3118.8	1124.0	878.7	1037.0	1116.1	1891.9	2153.1	1535.7	1258.6	1203.2	1163.6
82.5°	1179.5	688.7	601.6	712.4	712.4	1496.1	1757.3	1179.5	949.9	1226.9	1250.7
85°	538.3	411.6	395.8	411.6	411.6	918.2	1242.8	767.8	854.9	736.2	649.1
87.5°	213.7	197.9	182.1	174.1	142.5	158.3	427.5	205.8	387.9	102.9	95.0
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)