

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: P977454

Luminaire Tested: **EPH-VN-08-E-740-U-T4FT**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977454
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-T4FT
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T4FT
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69181.4 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

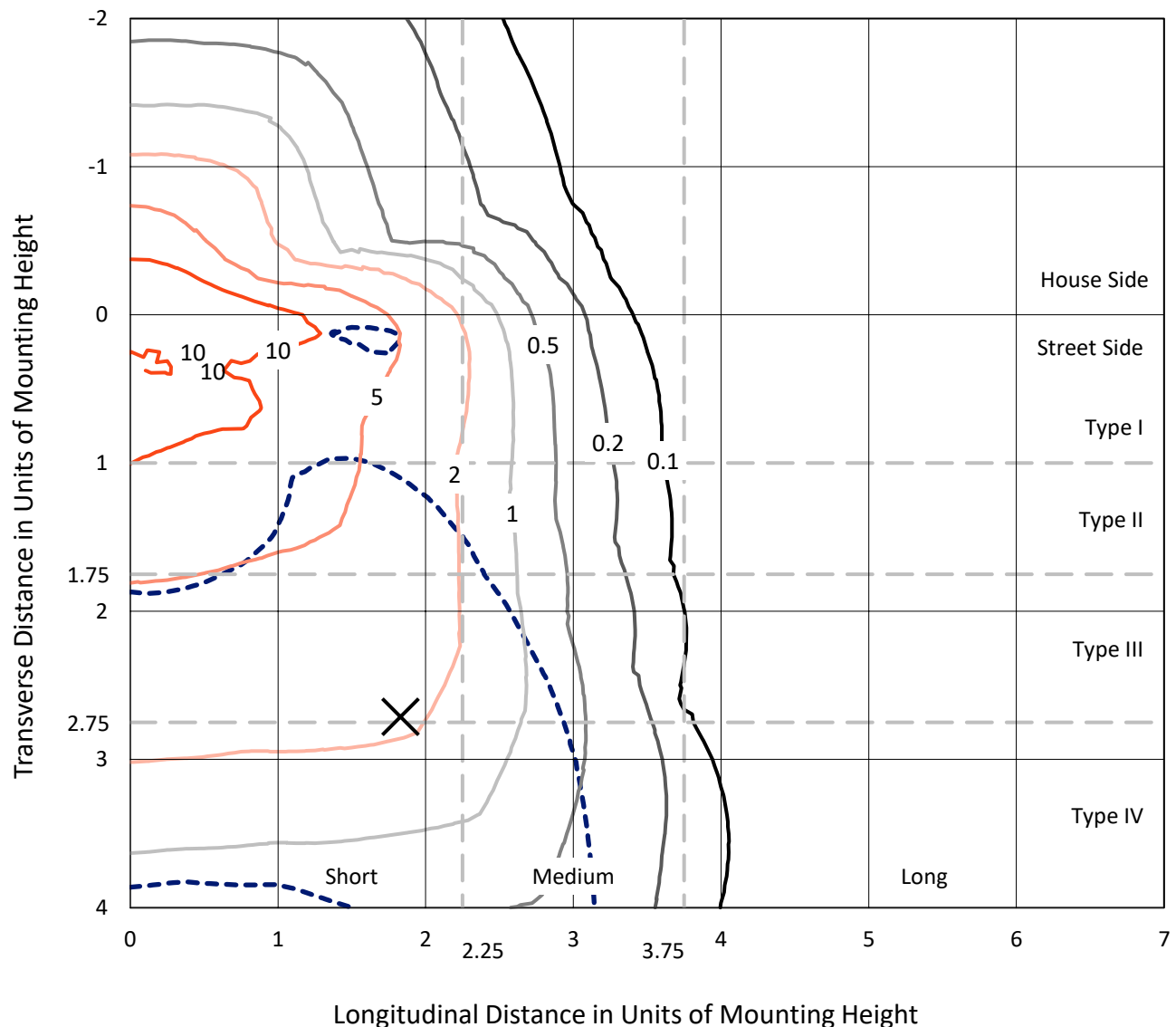
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

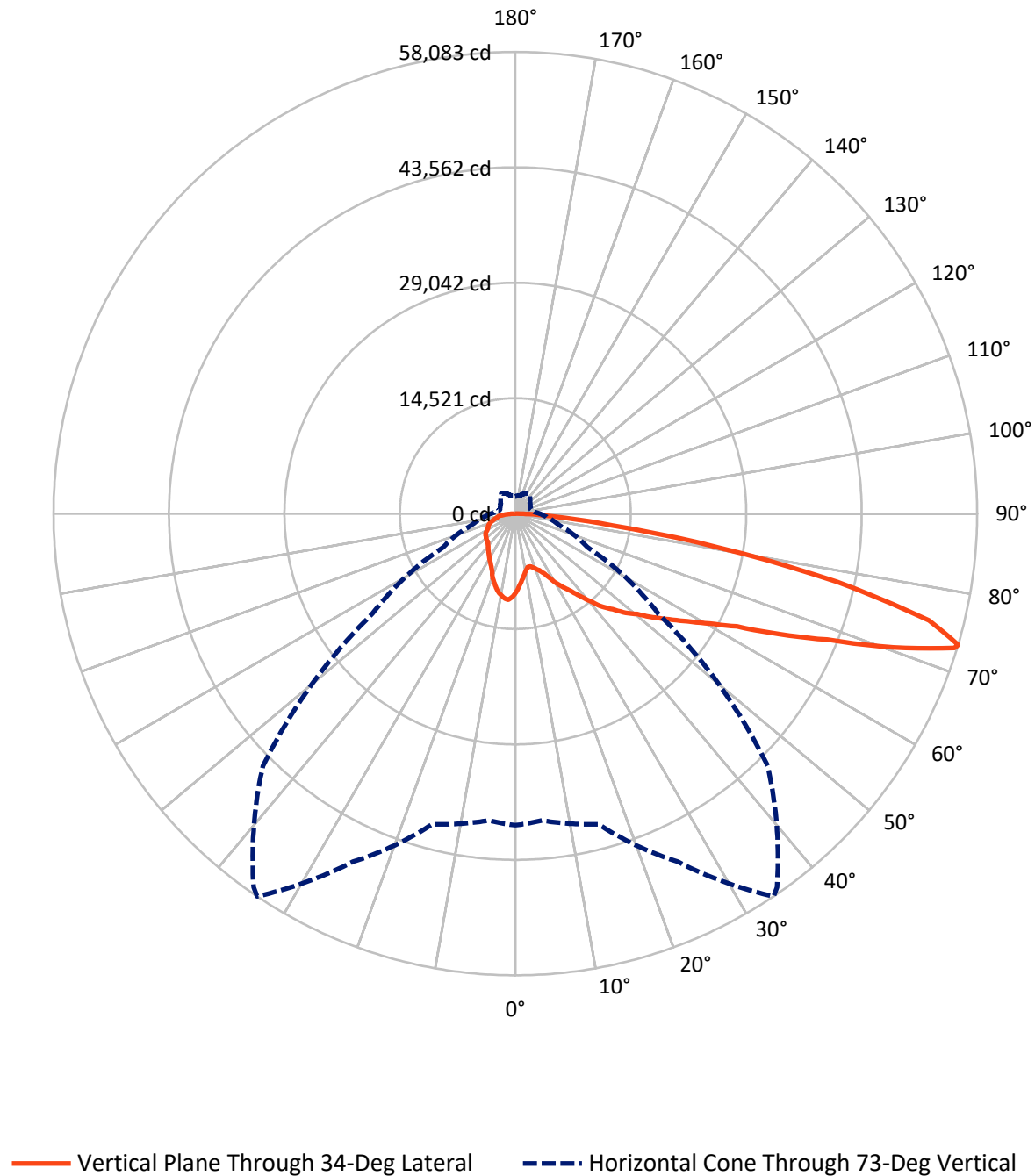


Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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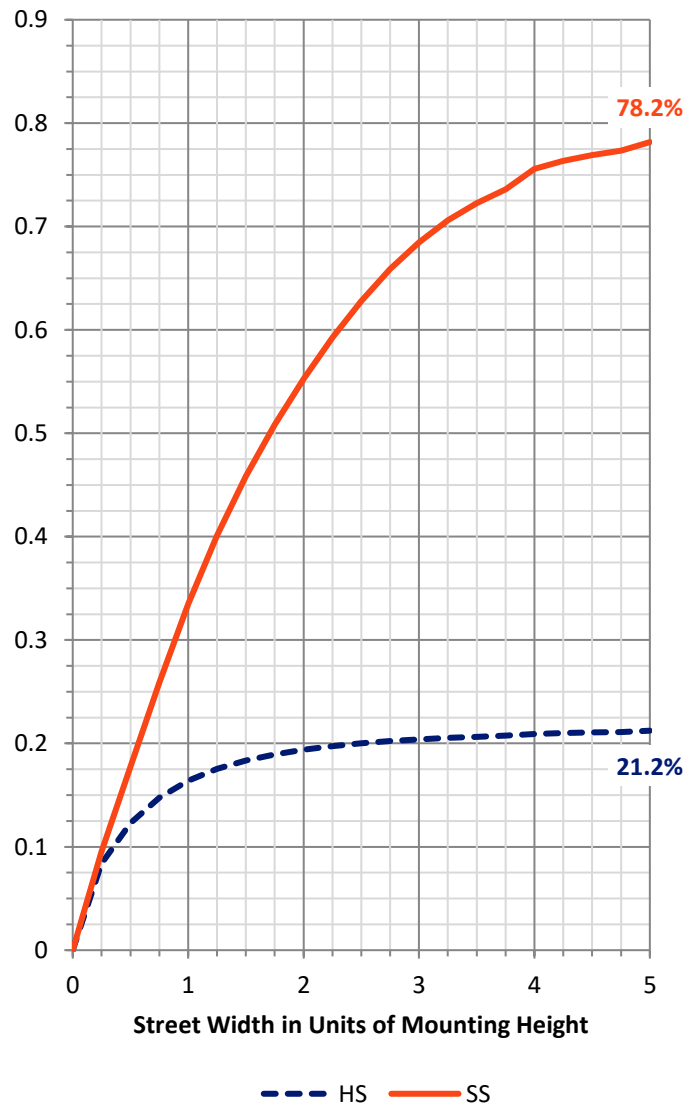
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14944.0	0.0	14944.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	54237.4	0.0	54237.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	69181.4	0.0	69181.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.4	1.3
10°-20°	2561.8	3.7
20°-30°	4216.4	6.1
30°-40°	6305.6	9.1
40°-50°	9347.8	13.5
50°-60°	13471.2	19.5
60°-70°	17191.0	24.8
70°-80°	13377.5	19.3
80°-90°	1794.7	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°	69181.4	100.0
0°-180°	69181.4	100.0

Coefficient of Utilization



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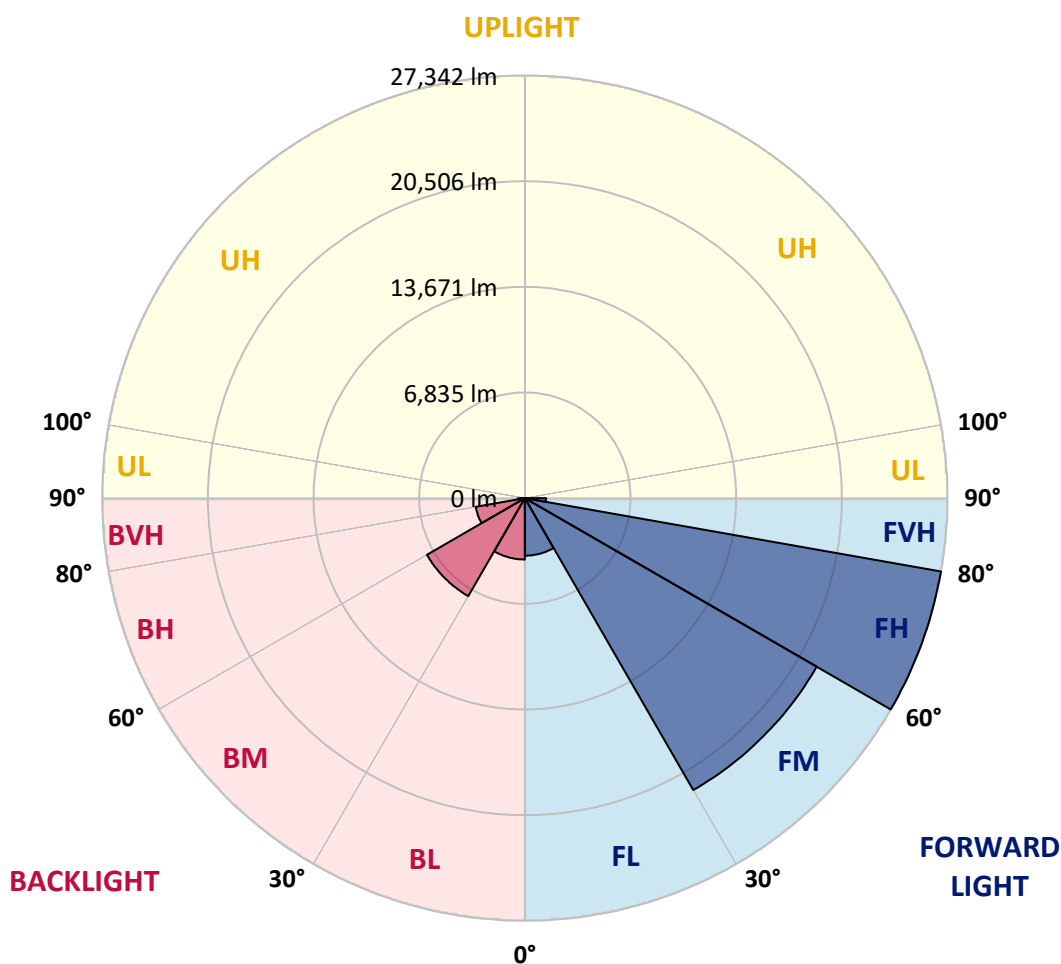
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3723.1	5.4			
FM	(30°-60°)	21806.4	31.5			
FH	(60°-80°)	27341.7	39.5			G5
FVH	(80°-90°)	1366.1	2.0			G5
BL	(0°-30°)	3970.5	5.7	B4/5000		
BM	(30°-60°)	7318.1	10.6	B4/8500		
BH	(60°-80°)	3226.7	4.7	B4/5000		G4/5000
BVH	(80°-90°)	428.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2
2.5°	8886.9	8916.2	9011.3	9033.2	9135.6	9077.1	9201.4	9420.9	9545.2	9728.1	9947.5
5°	8184.7	8060.4	8118.9	8345.7	8462.7	8491.9	8623.6	8996.6	9230.7	9501.3	9910.9
7.5°	7358.2	7336.3	7453.3	7599.6	7833.7	7855.6	8148.2	8477.3	8960.1	9559.8	10042.6
10°	6795.0	6890.1	6955.9	7109.5	7270.5	7270.5	7643.5	8214.0	8762.6	9340.4	10071.8
12.5°	6765.8	6707.2	6721.9	6802.3	6919.4	7065.6	7416.7	7928.7	8623.6	9296.5	10196.2
15°	6860.8	6882.8	6751.1	6853.5	6897.4	6948.6	7336.3	7914.1	8535.8	9450.1	10408.3
17.5°	7365.5	7241.2	7036.4	6941.3	7094.9	7094.9	7358.2	7811.7	8550.5	9530.6	10715.5
20°	7760.5	7760.5	7424.1	7321.7	7431.4	7409.4	7592.3	7928.7	8623.6	9691.5	11059.3
22.5°	8426.1	8521.2	7965.3	7753.2	7745.9	7804.4	7965.3	8250.6	8828.4	9918.2	11388.4
25°	9384.3	9406.2	8762.6	8543.1	8309.1	8404.2	8433.4	8718.7	9011.3	10181.6	11761.5
27.5°	10452.2	10437.6	9845.1	9296.5	9142.9	9164.9	9003.9	9194.1	9281.9	10262.0	12295.4
30°	11637.1	11505.5	11059.3	10284.0	10159.6	10020.6	9669.6	9662.2	9845.1	10715.5	13034.1
32.5°	12412.4	12244.2	11937.0	11381.1	11037.3	11052.0	10496.1	10488.8	10327.8	11212.9	13677.8
35°	13173.1	12917.1	12836.7	12266.1	11922.4	11958.9	11512.8	11454.3	11161.7	11966.3	14738.4
37.5°	14087.4	13860.7	13985.0	13553.5	13129.2	12953.7	12748.9	12675.7	12295.4	13026.8	16186.6
40°	15096.8	15023.6	14943.2	14731.1	14475.1	14489.7	14270.3	14197.1	13633.9	14306.8	17576.4
42.5°	16457.3	16179.3	15762.4	15901.4	16033.0	16172.0	16098.9	15908.7	15323.5	15608.8	19127.0
45°	17722.6	17356.9	16588.9	16632.8	17174.1	17283.8	18168.8	18146.9	16969.3	17261.8	20889.7
47.5°	18578.4	18410.2	17949.4	17898.2	18673.5	18666.2	20260.7	20260.7	18702.8	18907.6	22784.2
50°	19851.1	19412.3	19214.8	19470.8	19865.7	20136.4	22396.5	22535.5	20407.0	20626.4	25263.7
52.5°	21343.2	20794.7	20297.3	20955.6	21657.8	21833.3	24510.3	24451.8	21716.3	22623.2	28167.5
55°	22579.4	22301.4	21957.6	22338.0	23486.3	23705.8	26631.5	26090.2	23025.5	24276.3	29564.6
57.5°	24020.3	24188.5	24261.7	24166.6	25534.4	25878.1	29052.5	27501.9	24151.9	25388.1	30383.8
60°	26192.6	26295.0	26390.1	26616.9	28065.1	28547.9	30968.9	29272.0	24861.4	26031.7	30449.6
62.5°	29498.7	29103.7	29315.9	30098.5	31261.5	31810.1	33792.2	30515.4	25402.7	26419.4	28299.2
65°	33280.2	32746.3	32526.9	33536.2	36549.7	36110.9	37317.7	31444.3	24620.1	24971.1	23998.3
67.5°	37112.9	37171.5	36608.3	38634.3	42328.1	42328.1	40594.6	31890.5	22498.9	20238.8	16830.3
70°	40155.7	40338.6	40645.8	44573.6	50425.0	51310.1	44654.0	30061.9	18176.1	13473.0	9201.4
72.5°	40111.8	39563.2	41135.8	48369.7	57783.3	57044.5	45502.5	23771.6	11344.5	6597.5	4220.4
73°	39212.2	38751.4	40470.2	48333.1	58083.2	57388.3	44880.8	21913.8	10006.0	5719.8	3752.3
75°	32022.2	31188.3	34114.1	43776.3	53738.4	54272.4	38129.6	14292.2	5485.8	3525.5	2640.5
77.5°	14599.4	14965.1	18775.9	29367.1	41413.8	42042.8	25066.2	6180.6	3006.2	2472.2	1945.6
80°	4688.5	4922.5	7307.0	14599.4	25958.6	27092.3	11585.9	2808.7	2143.1	1894.4	1455.6
82.5°	1792.0	1784.7	3064.7	6070.9	12302.7	13026.8	4235.0	1711.6	1594.5	1397.0	1031.3
85°	629.0	658.3	1155.7	2399.1	4842.1	5068.8	1470.2	950.9	1104.5	936.2	592.5
87.5°	219.4	226.7	409.6	870.4	1667.7	1762.8	409.6	380.3	548.6	541.3	299.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2	9918.2
2.5°	10020.6	10086.5	10108.4	10371.7	10371.7	10371.7	10474.1	10474.1	10444.9	10371.7	10547.3
5°	10064.5	10181.6	10408.3	10635.0	10693.6	10744.8	10883.7	10766.7	10810.6	10737.4	10803.3
7.5°	10188.9	10349.8	10774.0	10913.0	10817.9	10927.6	10781.3	10700.9	10620.4	10649.7	10547.3
10°	10401.0	10605.8	10803.3	11059.3	10876.4	10766.7	10466.8	10393.7	10137.7	10049.9	10130.4
12.5°	10664.3	10913.0	11249.5	11154.4	10803.3	10488.8	10166.9	9859.7	9706.1	9486.7	9545.2
15°	10927.6	11212.9	11264.1	11103.2	10664.3	10269.3	9684.2	9252.6	9099.0	8901.5	9003.9
17.5°	11212.9	11483.5	11395.7	10978.8	10386.4	9786.6	9121.0	8696.7	8374.9	8250.6	8250.6
20°	11637.1	11768.8	11629.8	10774.0	10049.9	9260.0	8616.3	8133.5	7811.7	7760.5	7680.1
22.5°	11966.3	12178.4	11556.7	10474.1	9559.8	8572.4	7833.7	7650.8	7555.7	7475.3	7372.9
25°	12390.5	12383.2	11425.0	10196.2	8718.7	7753.2	7307.0	7292.4	7248.5	7219.3	7358.2
27.5°	12792.8	12624.5	11271.4	9508.6	7848.3	7131.5	6890.1	7051.0	7116.8	7073.0	7131.5
30°	13429.1	13151.2	11052.0	8777.2	7080.3	6502.4	6546.3	6765.8	6875.5	6941.3	6853.5
32.5°	14102.0	13677.8	10598.5	8016.5	6400.0	6107.5	6209.9	6436.6	6568.3	6641.4	6721.9
35°	15074.8	14087.4	10137.7	7021.8	5910.0	5866.1	5924.6	6049.0	6239.1	6290.3	6312.3
37.5°	16274.4	14709.1	9516.0	6224.5	5529.6	5580.8	5639.4	5683.2	5690.6	5785.6	5749.1
40°	17474.0	15235.8	8609.0	5463.8	5134.7	5412.6	5383.4	5302.9	5237.1	5149.3	5127.4
42.5°	18527.2	15696.6	7599.6	4820.1	4783.6	5237.1	5142.0	4937.2	4783.6	4717.7	4608.0
45°	19712.1	16347.5	6582.9	4417.9	4512.9	5024.9	4995.7	4681.2	4483.7	4249.6	4220.4
47.5°	21248.1	17027.8	5610.1	4000.9	4256.9	4944.5	4959.1	4556.8	4271.6	3957.1	3913.2
50°	23215.7	18007.9	4871.3	3825.4	4103.3	4827.5	4849.4	4388.6	4015.6	3693.7	3664.5
52.5°	25102.8	19010.0	4256.9	3554.8	4000.9	4688.5	4739.7	4235.0	3803.5	3401.2	3423.1
55°	26053.7	18644.2	3730.3	3357.3	3766.9	4461.7	4651.9	4125.3	3481.6	3203.7	3196.4
57.5°	26265.8	17744.6	3313.4	3152.5	3569.4	4220.4	4505.6	3796.1	3335.3	3101.3	3072.0
60°	25570.9	16172.0	2984.2	2933.0	3320.7	3971.7	4169.2	3620.6	3189.1	2998.9	2955.0
62.5°	23859.4	14540.9	2757.5	2830.6	3108.6	3701.1	3957.1	3496.3	3050.1	2918.4	2823.3
65°	19565.9	11958.9	2574.6	2633.2	2889.2	3437.7	3825.4	3357.3	2925.7	2801.4	2794.1
67.5°	13553.5	8243.3	2428.4	2538.1	2713.6	3247.6	3693.7	3203.7	2764.8	2720.9	2662.4
70°	6941.3	4395.9	2238.2	2326.0	2523.4	3006.2	3459.7	3042.8	2596.6	2589.3	2516.1
72.5°	3518.2	2574.6	2018.8	2150.4	2289.4	2691.7	3167.1	2830.6	2384.5	2304.0	2187.0
73°	3042.8	2384.5	1982.2	2099.2	2230.9	2603.9	3079.3	2779.4	2355.2	2238.2	2128.5
75°	2216.2	1879.8	1777.4	1894.4	1996.8	2347.9	2786.8	2545.4	2165.0	2040.7	1938.3
77.5°	1660.4	1448.2	1477.5	1609.2	1696.9	2026.1	2479.6	2304.0	1960.2	1792.0	1748.1
80°	1221.5	1104.5	1221.5	1345.8	1411.7	1784.7	2260.1	1996.8	1653.0	1462.9	1426.3
82.5°	870.4	804.6	943.5	1024.0	1053.3	1477.5	2033.4	1594.5	1250.8	1002.1	921.6
85°	497.4	490.1	636.3	629.0	651.0	863.1	1338.5	1060.6	804.6	614.4	599.8
87.5°	219.4	241.4	321.8	256.0	270.6	409.6	570.5	395.0	329.1	182.9	139.0
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)