

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: P977444

Luminaire Tested: **EPH-VN-08-E-740-U-T3**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977444
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-T3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3
distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68778.2 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

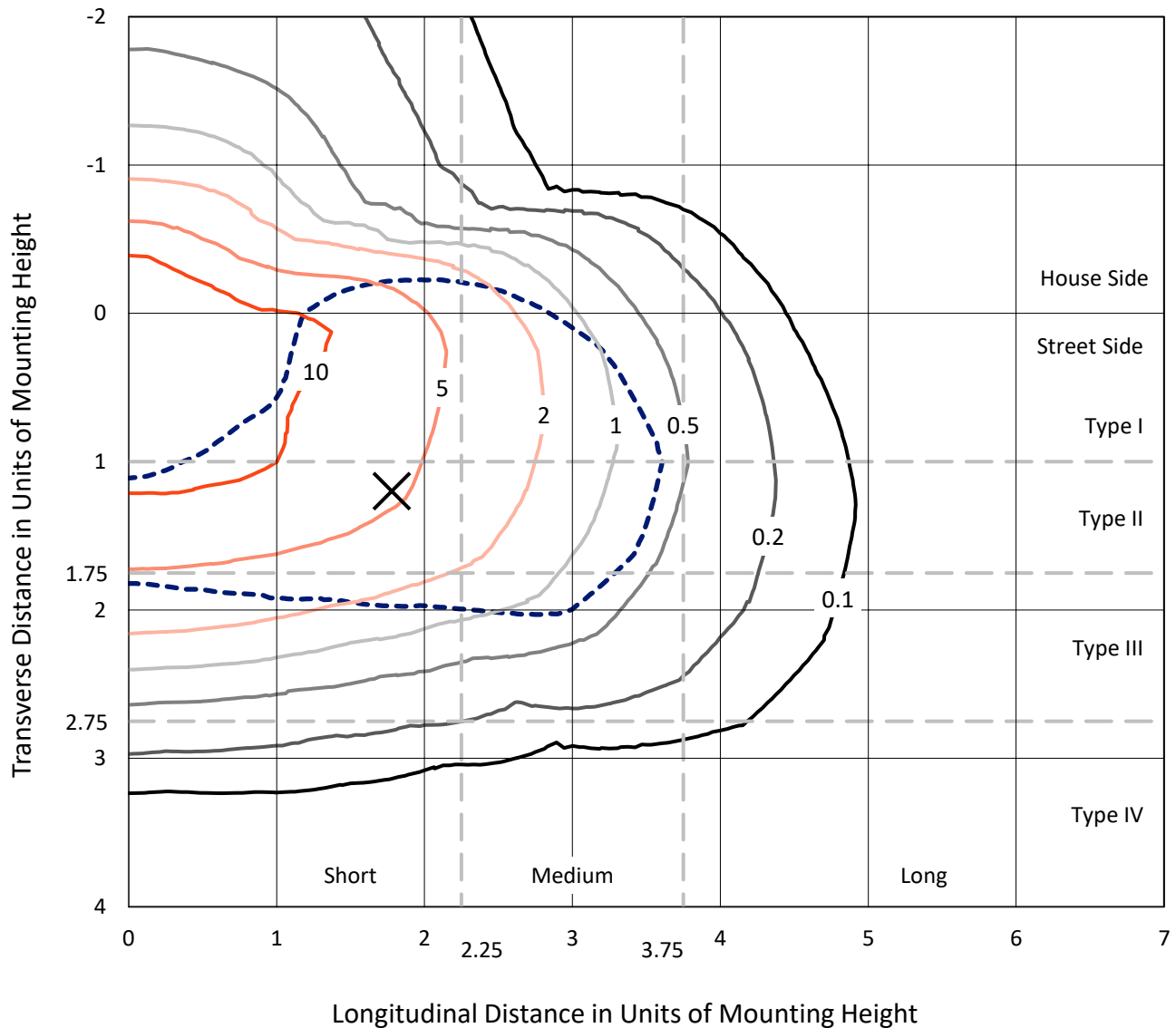
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

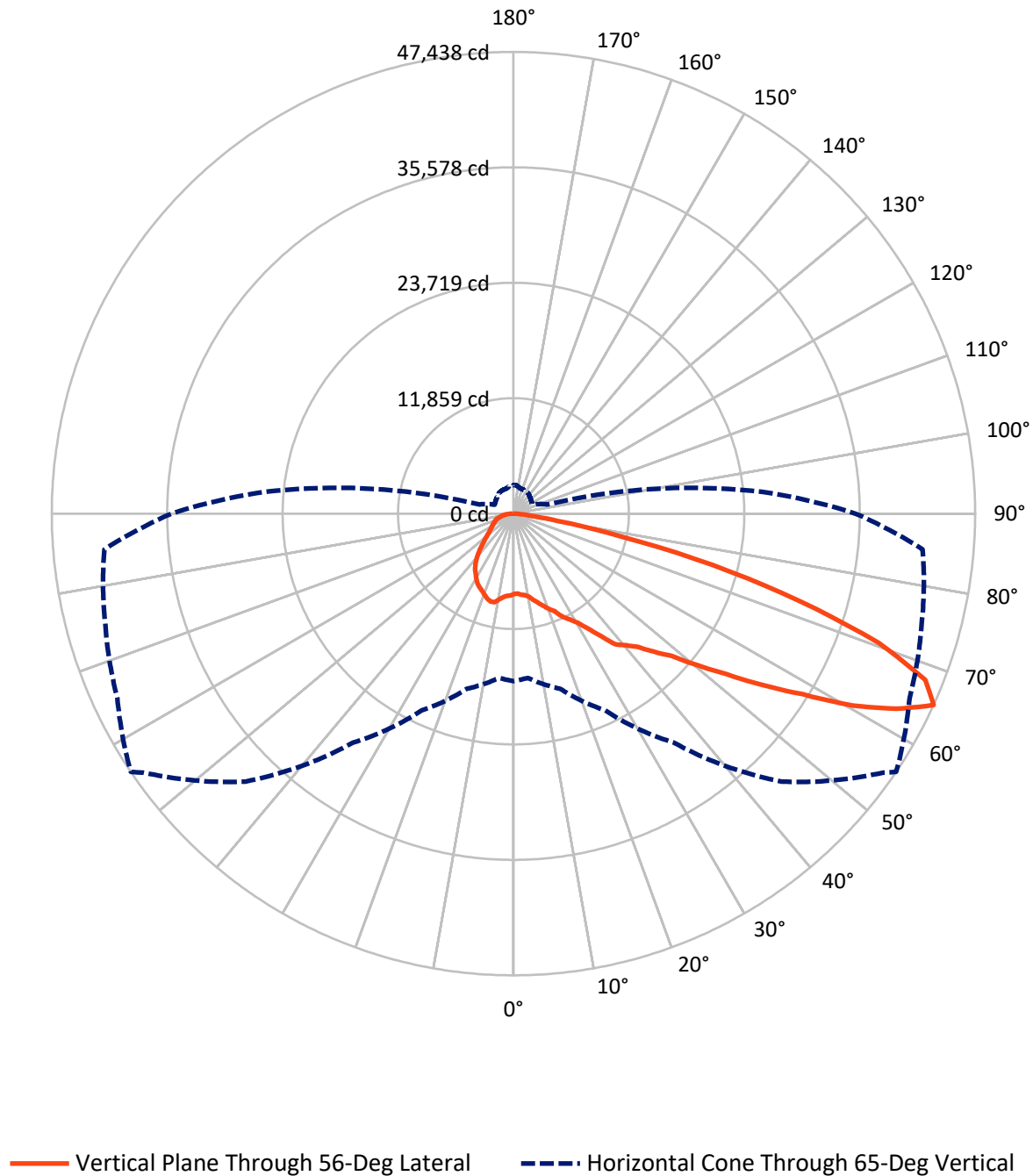


Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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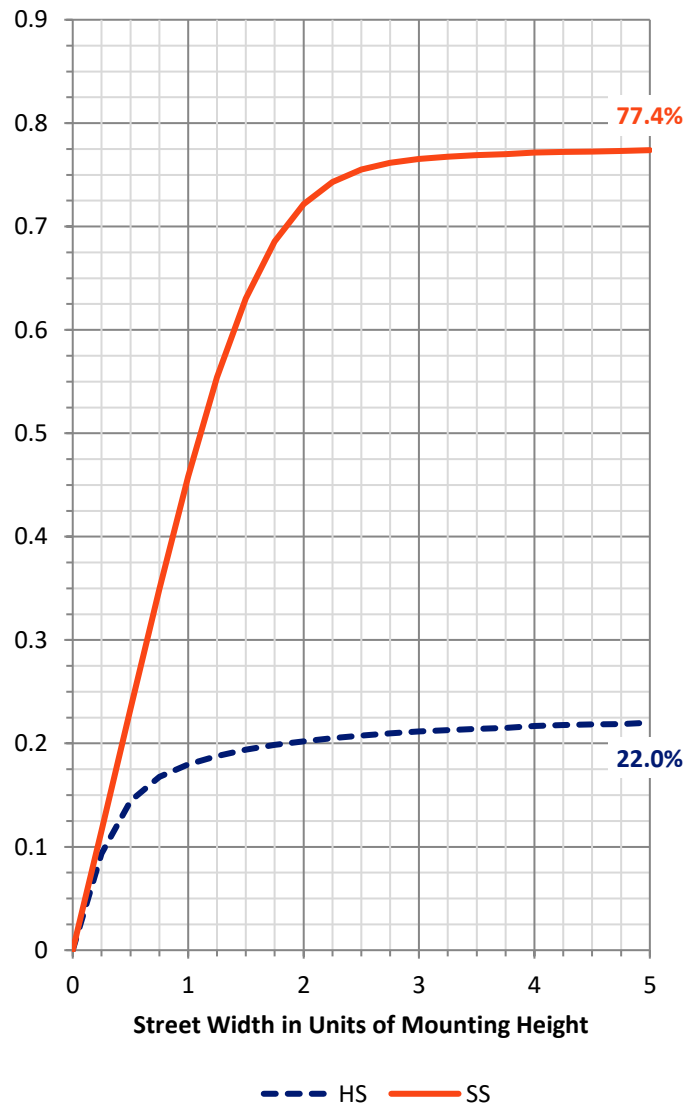
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15424.7	0.0	15424.7
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	53353.5	0.0	53353.5
	% Fixture	77.6	0.0	77.6
Total	Lumens	68778.2	0.0	68778.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.1	1.2
10°-20°	2656.4	3.9
20°-30°	4729.9	6.9
30°-40°	7082.9	10.3
40°-50°	10494.2	15.3
50°-60°	16170.0	23.5
60°-70°	18306.5	26.6
70°-80°	7597.4	11.0
80°-90°	923.0	1.3
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°	68778.2	100.0
0°-180°	68778.2	100.0

Coefficient of Utilization



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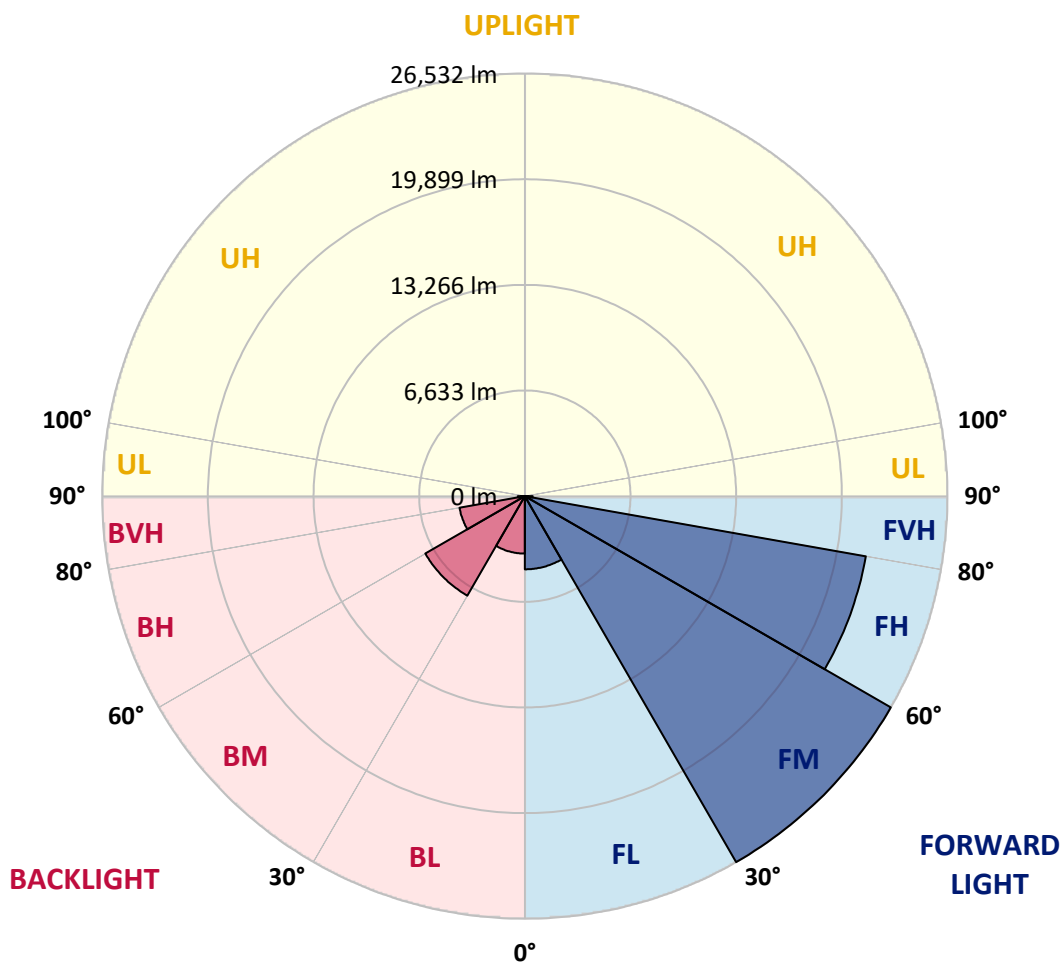
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4596.4	6.7			
FM	(30°-60°)	26531.6	38.6			
FH	(60°-80°)	21738.6	31.6			G5
FVH	(80°-90°)	486.9	0.7			G3/500
BL	(0°-30°)	3608.0	5.2	B4/5000		
BM	(30°-60°)	7215.4	10.5	B4/8500		
BH	(60°-80°)	4165.2	6.1	B4/5000		G4/5000
BVH	(80°-90°)	436.1	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3
2.5°	8039.4	8082.6	8053.8	8140.2	8212.2	8212.2	8269.7	8226.6	8284.1	8363.3	8399.3
5°	8305.7	8133.0	8226.6	8269.7	8248.1	8284.1	8226.6	8370.5	8276.9	8428.1	8464.1
7.5°	8370.5	8435.3	8514.5	8442.5	8507.3	8471.3	8478.5	8456.9	8406.5	8528.8	8514.5
10°	8845.5	8752.0	8931.9	8823.9	8809.5	8795.1	8766.4	8658.4	8780.8	8787.9	8859.9
12.5°	9392.5	9306.2	9299.0	9212.6	9327.8	9119.0	9162.2	9104.6	9126.2	9155.0	9133.4
15°	9788.4	9752.4	9917.9	9817.2	9666.0	9572.5	9673.2	9514.9	9594.1	9579.7	9536.5
17.5°	10572.9	10565.7	10443.3	10277.8	10191.4	10054.7	10033.1	9968.3	10025.9	9997.1	10061.9
20°	11119.9	11199.1	11220.6	11026.3	10695.2	10544.1	10508.1	10457.7	10522.5	10500.9	10428.9
22.5°	11954.8	11832.4	11926.0	11587.7	11465.4	11105.5	10975.9	10904.0	11213.5	11134.3	10824.8
25°	12487.4	12616.9	12523.4	12408.2	12134.7	11688.5	11594.9	11753.3	11875.6	11789.2	11263.8
27.5°	13689.3	13559.8	13473.4	13127.9	12948.0	12480.2	12372.2	12314.6	12343.4	12393.8	11609.3
30°	14603.4	14675.4	14481.0	14236.3	13782.9	13307.9	13056.0	13005.6	12904.8	12818.5	12134.7
32.5°	15906.1	15798.2	15683.0	15524.7	15136.0	14509.8	14265.1	14078.0	13775.7	13372.7	12631.3
35°	16532.3	16841.8	16755.4	16330.8	16035.7	15798.2	15726.2	15438.3	15186.4	14553.0	13466.2
37.5°	17575.9	17705.5	17583.1	17446.3	17309.6	17057.7	16971.3	17050.5	16553.9	15510.3	13962.8
40°	18252.4	18525.9	18777.9	18396.4	18367.6	18418.0	17885.4	17791.8	16769.8	16222.8	15114.4
42.5°	19634.3	19749.5	19799.9	19785.5	19951.0	19951.0	18936.2	18734.7	18007.7	17561.5	16820.2
45°	21462.5	21556.0	21736.0	21865.5	21678.4	21771.9	20325.3	20246.1	19598.4	19512.0	18763.5
47.5°	23045.9	23269.0	23672.0	24053.5	24298.2	23981.5	22398.1	21836.7	21671.2	22189.4	21404.9
50°	24427.8	24161.5	25104.3	25493.0	26565.4	27090.8	24686.9	24463.8	24197.5	25190.7	24809.2
52.5°	24564.5	24924.4	26255.9	27033.2	29242.8	30214.4	27493.8	27400.3	27076.4	28220.8	28645.4
55°	25543.4	25500.2	26838.9	28523.1	31150.1	32783.9	31150.1	31092.5	30387.2	31474.0	32222.5
57.5°	25377.8	25816.9	26874.9	29228.4	32870.2	35540.5	35389.3	34993.5	34007.4	34892.7	36231.4
60°	24816.4	24931.6	26219.9	29206.8	33870.7	38369.0	39966.8	40046.0	38030.7	38736.1	40333.9
62.5°	21635.2	21901.5	23535.3	26910.8	33158.1	40319.5	44436.4	44155.7	42543.5	41737.4	42219.6
65°	17208.8	16942.5	18641.1	22290.2	28724.6	38937.6	46394.0	47437.7	44904.2	43428.7	42198.0
67.5°	10551.3	10486.5	12120.3	15337.5	21491.3	33136.5	44832.2	45645.5	44249.2	43068.9	38757.7
70°	5434.0	5268.5	6290.5	8557.6	13509.4	24312.6	39016.8	39815.7	41147.2	38628.1	32524.8
72.5°	2533.5	2497.5	3044.5	4210.4	6880.7	14293.9	30214.4	30790.2	33597.2	32568.0	24809.2
75°	1489.8	1511.4	1820.9	2202.4	3354.0	6736.7	20051.8	21167.4	24211.8	23470.5	15798.2
77.5°	1115.6	1115.6	1295.5	1533.0	1957.7	2605.4	9896.3	11371.8	14157.2	12732.1	7600.4
80°	820.5	834.9	993.2	1151.6	1360.3	1345.9	3929.7	4606.3	6492.0	5549.1	3001.3
82.5°	640.6	662.2	770.1	856.5	957.2	813.3	1612.2	1734.6	2670.2	2123.2	1187.6
85°	446.2	460.6	604.6	583.0	583.0	453.4	669.4	705.3	1058.0	1007.6	503.8
87.5°	108.0	122.4	295.1	323.9	244.7	136.7	208.7	237.5	381.5	439.0	215.9
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°	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3	8255.3
2.5°	8291.3	8320.1	8442.5	8377.7	8413.7	8262.5	8384.9	8284.1	8370.5	8327.3	8248.1
5°	8521.6	8456.9	8528.8	8478.5	8478.5	8536.0	8622.4	8557.6	8687.2	8629.6	8550.4
7.5°	8615.2	8622.4	8665.6	8672.8	8636.8	8816.7	8823.9	8802.3	8924.7	8895.9	8852.7
10°	8845.5	8852.7	8931.9	8975.1	8939.1	9003.9	8931.9	8874.3	8867.1	8838.3	8838.3
12.5°	9212.6	9284.6	9270.2	9306.2	9313.4	9039.9	8874.3	8593.6	8557.6	8593.6	8608.0
15°	9550.9	9522.1	9536.5	9608.4	9306.2	8867.1	8572.0	8334.5	8348.9	8356.1	8456.9
17.5°	9953.9	9975.5	9997.1	9666.0	9111.8	8593.6	8334.5	8334.5	8262.5	8291.3	8298.5
20°	10414.5	10328.2	10141.0	9673.2	8773.6	8276.9	8197.8	8197.8	8111.4	8053.8	7967.5
22.5°	10774.4	10601.7	10321.0	9450.1	8471.3	8154.6	7960.3	7823.5	7722.7	7607.6	7542.8
25°	11004.7	10911.2	10364.2	9219.8	8248.1	7830.7	7542.8	7334.1	7204.5	7053.4	7082.2
27.5°	11357.4	11177.5	10486.5	8953.5	8003.4	7506.8	7060.6	6736.7	6492.0	6333.7	6405.6
30°	11832.4	11573.3	10400.2	8572.0	7629.2	6945.4	6420.0	6002.6	5721.9	5592.3	5664.3
32.5°	12221.1	11882.8	10328.2	8226.6	7211.7	6376.8	5678.7	5254.1	5095.7	4930.2	4923.0
35°	12962.4	12293.1	10277.8	8032.2	6837.5	5808.3	5074.1	4707.1	4505.5	4260.8	4239.2
37.5°	13531.0	13005.6	10155.4	7629.2	6355.2	5254.1	4613.5	4282.4	3980.1	3721.0	3728.2
40°	14423.5	13998.8	10162.6	7060.6	5786.7	4779.0	4253.6	3908.2	3526.7	3303.6	3325.2
42.5°	16100.4	14977.7	10205.8	6607.2	5146.1	4390.4	3929.7	3519.5	3138.0	2950.9	2965.3
45°	18158.9	16323.6	9939.5	6196.9	4491.1	4023.3	3541.1	3130.8	2886.1	2749.4	2778.2
47.5°	20526.8	17640.7	9579.7	5426.8	3944.1	3634.7	3181.2	2943.7	2763.8	2684.6	2670.2
50°	23175.4	19526.4	9478.9	4721.5	3519.5	3303.6	3008.5	2828.6	2706.2	2612.6	2627.0
52.5°	26587.0	21721.6	9277.4	3994.5	3152.4	3037.3	2943.7	2821.4	2713.4	2634.2	2627.0
55°	29847.4	24154.3	9061.4	3397.1	2893.3	2907.7	2958.1	2850.1	2756.6	2634.2	2627.0
57.5°	33518.0	26637.3	8262.5	2958.1	2699.0	2842.9	2943.7	2821.4	2727.8	2634.2	2627.0
60°	35785.2	28033.6	6700.7	2576.6	2526.3	2720.6	2857.3	2727.8	2627.0	2663.0	2634.2
62.5°	36706.4	27299.5	5052.5	2339.1	2403.9	2555.1	2720.6	2670.2	2598.2	2735.0	2699.0
65°	35137.4	25608.1	3613.1	2137.6	2238.4	2389.5	2598.2	2655.8	2677.4	2943.7	2943.7
67.5°	31265.2	22297.4	2655.8	1972.1	2065.6	2288.8	2684.6	2778.2	2763.8	3094.9	3116.4
70°	25017.9	17439.1	2072.8	1835.3	2000.9	2367.9	2807.0	2807.0	2706.2	3094.9	3030.1
72.5°	18202.1	12293.1	1784.9	1677.0	1835.3	2173.6	2792.6	2785.4	2655.8	2828.6	2727.8
75°	11019.1	7154.2	1576.2	1518.6	1576.2	1864.1	2670.2	2627.0	2447.1	2432.7	2403.9
77.5°	5491.6	3598.7	1288.3	1345.9	1374.7	1561.8	2346.3	2411.1	2166.4	2108.8	2072.8
80°	2317.5	1569.0	1072.4	1158.8	1158.8	1317.1	1950.5	1993.7	1799.3	1691.4	1655.4
82.5°	1058.0	899.7	914.1	1007.6	942.9	1022.0	1547.4	1597.8	1461.1	1281.1	1252.3
85°	446.2	511.0	698.1	791.7	698.1	662.2	1065.2	1122.8	950.0	791.7	798.9
87.5°	201.5	280.7	439.0	575.8	352.7	309.5	568.6	590.2	475.0	352.7	331.1
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)