

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: P977485

Luminaire Tested: **EPH-VN-08-E-750-U-SL3**

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977485
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-SL3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68157 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

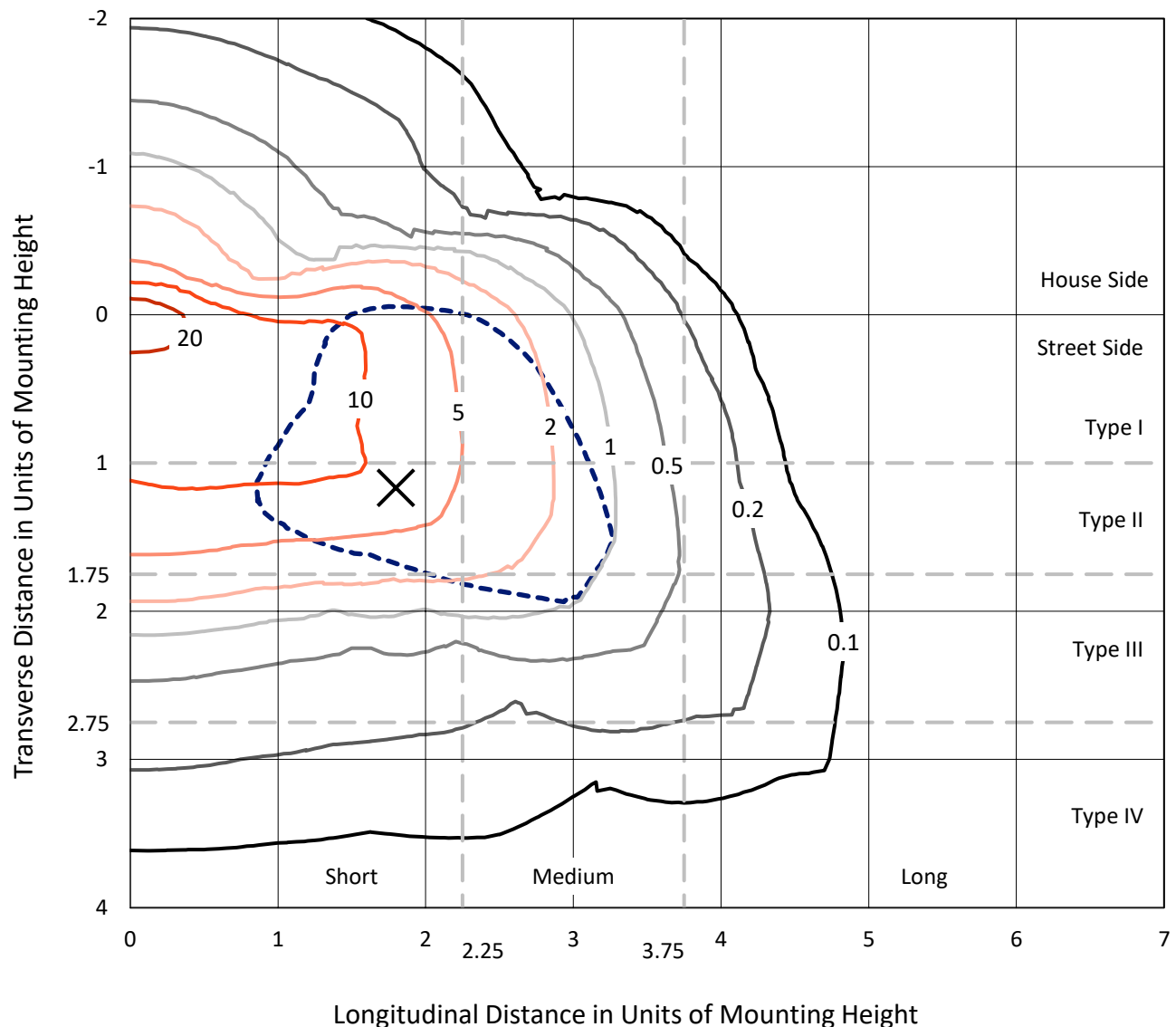
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

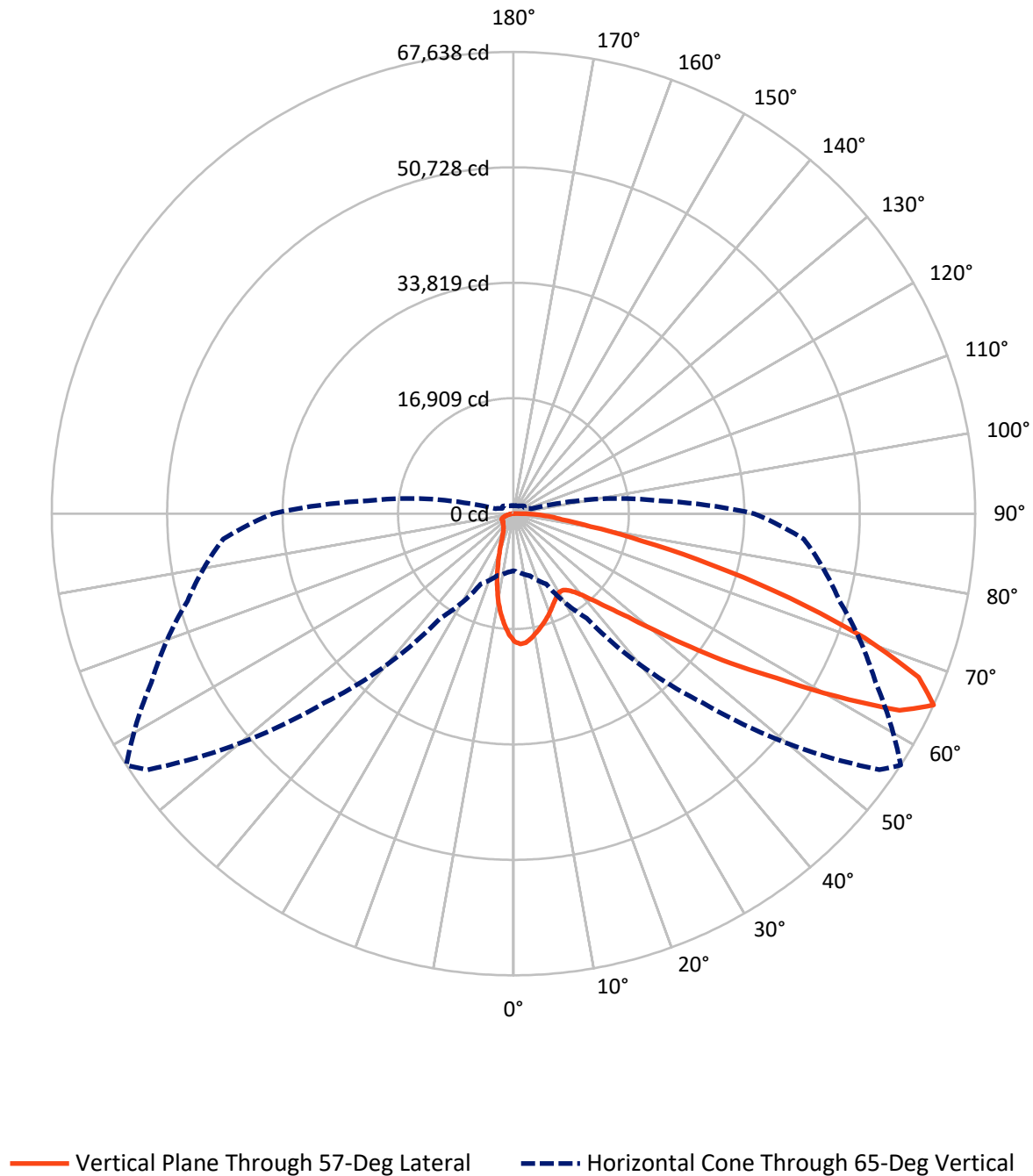
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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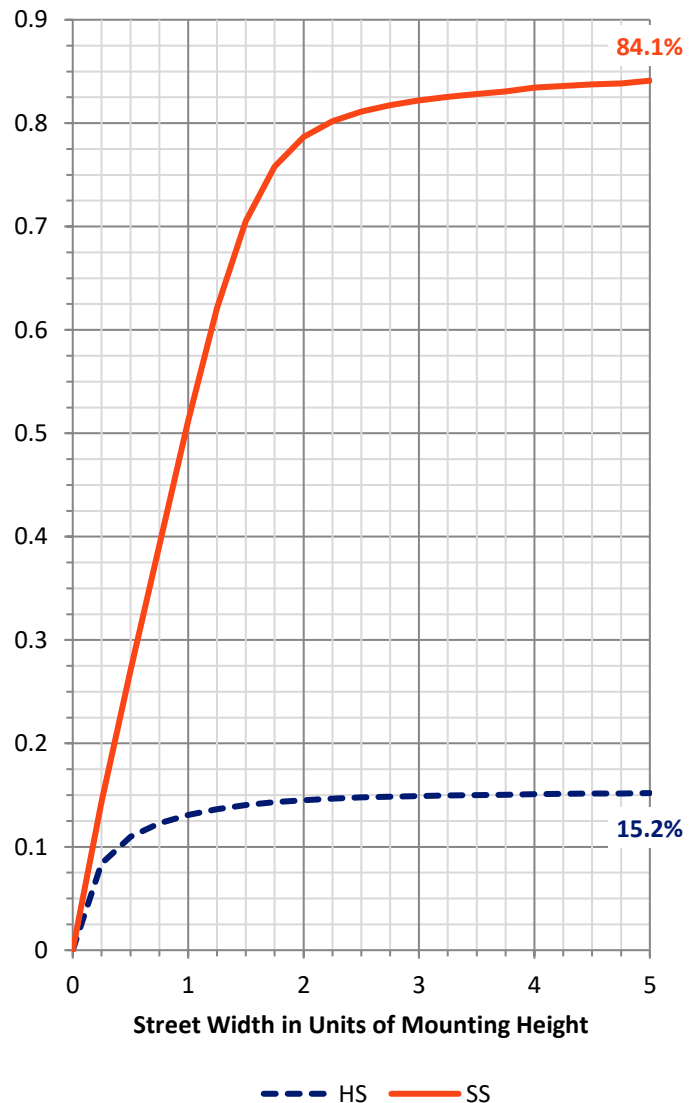
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10452.5	0.0	10452.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	57704.5	0.0	57704.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	68157.0	0.0	68157.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1569.5	2.3
10°-20°	3377.9	5.0
20°-30°	4367.3	6.4
30°-40°	5876.9	8.6
40°-50°	9371.0	13.7
50°-60°	16551.4	24.3
60°-70°	18208.8	26.7
70°-80°	7617.0	11.2
80°-90°	1217.4	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°	68157.0	100.0
0°-180°	68157.0	100.0

Coefficient of Utilization



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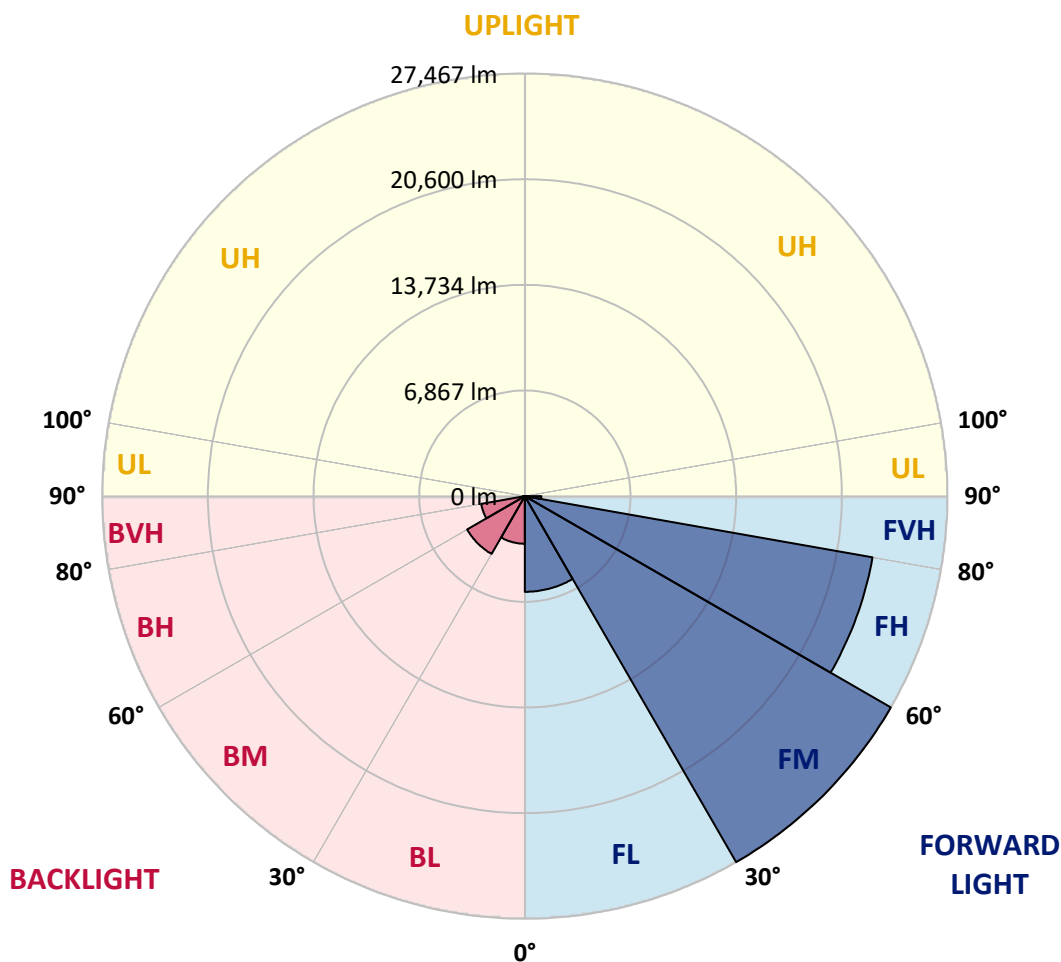
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6219.1	9.1			
FM	(30°-60°)	27467.2	40.3			
FH	(60°-80°)	22943.7	33.7			G5
FVH	(80°-90°)	1074.5	1.6			G5
BL	(0°-30°)	3095.5	4.5	B4/5000		
BM	(30°-60°)	4332.1	6.4	B3/5000		
BH	(60°-80°)	2882.1	4.2	B4/5000		G4/5000
BVH	(80°-90°)	142.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2
2.5°	19248.4	19279.0	19279.0	19340.4	19133.3	19233.0	19217.7	19125.7	19156.3	18995.3	18834.2
5°	18703.9	18680.9	18803.6	18818.9	18980.0	19026.0	19064.3	19003.0	19018.3	18665.5	18512.2
7.5°	17308.2	17300.5	17507.6	17683.9	18021.4	18335.8	18542.8	18481.5	18565.8	18343.5	17983.0
10°	15651.7	15828.1	16042.9	16219.2	16840.4	17239.2	17776.0	17829.7	18151.7	18098.1	17446.2
12.5°	14409.4	14486.1	14647.2	15153.3	15720.8	16380.3	17147.1	17216.2	17530.6	17683.9	17116.5
15°	13389.5	13458.5	13665.6	14041.3	14677.8	15460.0	16434.0	16610.3	17239.2	17292.8	16687.0
17.5°	12645.6	12699.3	12837.3	13213.1	13734.6	14739.2	15659.4	15973.8	16802.0	17062.8	16242.2
20°	12354.2	12239.2	12315.9	12553.6	13075.1	13849.6	15038.3	15314.3	16372.6	16886.4	15820.5
22.5°	12223.9	12124.2	12170.2	12154.8	12568.9	13121.1	14371.1	14662.5	15966.2	16679.4	15444.7
25°	12323.5	12323.5	12277.5	12239.2	12285.2	12645.6	13650.2	14102.7	15421.7	16503.0	15061.3
27.5°	12860.4	12653.3	12676.3	12515.3	12469.3	12469.3	13328.1	13596.5	15245.3	16403.3	14746.8
30°	13205.4	13305.1	13312.8	13075.1	12837.3	12407.9	13029.1	13289.8	15099.6	16526.0	14562.8
32.5°	14087.3	14041.3	13911.0	13865.0	13512.2	13029.1	13174.8	13351.1	15015.3	16802.0	14616.5
35°	14969.2	14946.2	14953.9	14930.9	14562.8	13849.6	13565.9	13803.6	15168.6	17285.2	14800.5
37.5°	15881.8	15943.2	16203.9	16203.9	15812.8	15038.3	14662.5	14593.5	15728.4	18075.0	15237.6
40°	16794.4	16947.8	17277.5	17799.0	17246.8	16526.0	15920.2	15812.8	16403.3	19133.3	16288.2
42.5°	17668.6	17921.7	18573.5	19348.0	19164.0	18443.1	17637.9	17515.2	17791.3	20705.4	17753.0
45°	18788.2	19003.0	20030.6	21219.2	21472.3	20835.8	19892.5	19792.8	19777.5	23006.0	19769.8
47.5°	20490.7	20720.7	21748.3	22944.7	23726.9	23826.5	22768.3	22660.9	22292.8	26111.8	22722.3
50°	22622.6	22998.3	23864.9	25260.6	26395.6	27461.5	27162.4	26848.0	26127.1	29723.8	26464.6
52.5°	24179.3	24639.4	25812.7	27599.5	29601.1	31295.8	32369.4	32369.4	30713.0	33688.5	30966.1
55°	24593.4	24869.5	26349.5	28933.9	32361.8	36648.6	38895.5	38726.8	36173.1	37860.2	36203.8
57.5°	22944.7	23305.1	25099.5	27806.6	33811.2	41656.2	45375.5	45413.8	42139.3	42706.8	41372.5
60°	18404.8	18519.8	20636.4	24256.0	32415.5	45689.9	54225.1	54370.8	48926.1	47024.3	44002.8
62.5°	12722.3	13090.4	14685.5	17860.3	26855.7	45237.5	62760.4	63481.2	54363.2	49301.9	44416.9
65°	8374.2	8596.6	9447.8	11380.3	18696.2	39209.9	65413.7	67637.6	58519.6	49432.2	42683.8
67.5°	6073.6	6111.9	6365.0	7361.9	11234.6	28197.7	60881.5	64018.0	60076.3	48343.3	38619.4
70°	4907.9	4938.6	5030.6	5667.1	7254.6	17645.6	49654.6	54570.2	55406.1	43182.3	31104.1
72.5°	3987.7	4026.1	4141.1	4739.2	5981.6	9815.9	36311.1	42300.4	45068.8	31947.7	20674.7
75°	3136.5	3167.2	3443.2	4033.7	5621.1	6740.8	24087.3	29953.8	30329.6	18673.2	9677.9
77.5°	2147.2	2200.9	2538.3	3420.2	5291.4	5897.2	15015.3	19187.0	17216.2	7308.2	3328.2
80°	1365.0	1441.7	1641.1	2592.0	4677.9	5628.8	9340.4	11457.0	7538.3	2500.0	1602.8
82.5°	805.2	881.9	1081.3	1679.4	3673.3	5222.4	6579.7	7170.2	3535.3	1280.7	966.3
85°	444.8	498.5	651.8	1012.3	2154.9	4639.5	5268.4	5145.7	2024.5	682.5	605.8
87.5°	145.7	168.7	237.7	406.4	889.6	2185.6	3159.5	2967.8	1050.6	314.4	237.7
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°	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2	18742.2
2.5°	18726.9	18703.9	18358.8	18098.1	17653.3	17285.2	17139.5	16940.1	16932.4	16786.7	16748.4
5°	18274.4	18036.7	17507.6	17001.4	16211.6	15682.4	15199.3	14861.9	14723.8	14424.8	14355.7
7.5°	17691.6	17377.2	16564.3	15613.4	14685.5	13857.3	13105.8	12354.2	11932.4	11786.7	11625.7
10°	17085.8	16533.6	15329.7	14263.7	12967.7	11694.7	10513.7	9455.5	8880.3	8473.9	8297.5
12.5°	16602.7	15866.5	14332.7	12737.7	11027.5	9325.1	7952.4	6840.5	6188.6	5881.9	5743.8
15°	16058.2	15084.3	13243.8	11226.9	9095.0	7162.5	5820.5	4946.3	4685.6	4539.9	4516.8
17.5°	15483.0	14355.7	12062.8	9739.2	7208.5	5391.1	4524.5	4171.8	4056.7	3995.4	3964.7
20°	14946.2	13703.9	10851.2	8082.8	5644.1	4325.1	3918.7	3734.6	3727.0	3757.6	3750.0
22.5°	14187.0	12852.7	9654.9	6549.0	4509.2	3765.3	3504.6	3458.6	3504.6	3542.9	3558.3
25°	13757.6	12154.8	8320.5	5199.4	3727.0	3343.5	3259.2	3243.8	3312.9	3358.9	3351.2
27.5°	13312.8	11434.0	7078.2	4164.1	3266.9	3044.5	3029.1	3044.5	3113.5	3182.5	3174.8
30°	12967.7	10858.8	5912.5	3481.6	2914.1	2829.7	2814.4	2829.7	2868.1	2875.8	2875.8
32.5°	12684.0	10176.3	4923.3	3021.5	2699.4	2630.4	2645.7	2638.0	2645.7	2653.4	2661.0
35°	12515.3	9769.9	4110.4	2737.7	2523.0	2469.3	2461.6	2438.6	2446.3	2454.0	2446.3
37.5°	12875.7	9570.5	3466.2	2538.3	2400.3	2354.3	2338.9	2323.6	2300.6	2300.6	2300.6
40°	13420.2	9463.1	3075.1	2408.0	2308.3	2254.6	2208.6	2193.2	2193.2	2200.9	2208.6
42.5°	14501.4	9639.5	2806.7	2308.3	2193.2	2131.9	2085.9	2093.5	2116.6	2139.6	2124.2
45°	16065.9	10176.3	2684.0	2231.6	2124.2	2039.9	2009.2	2001.5	2024.5	2062.9	2093.5
47.5°	18113.4	11012.2	2638.0	2162.6	2078.2	1963.2	1924.8	1947.8	1978.5	2032.2	2009.2
50°	21464.6	12891.0	2676.4	2101.2	2009.2	1924.8	1878.8	1855.8	1878.8	1917.2	1932.5
52.5°	25843.4	16303.6	2822.1	2070.5	1963.2	1894.2	1817.5	1779.1	1802.1	1832.8	1832.8
55°	31081.1	20966.1	3228.5	2032.2	1886.5	1848.1	1763.8	1687.1	1702.4	1702.4	1694.8
57.5°	35697.6	24486.1	3711.6	1978.5	1840.5	1786.8	1679.4	1587.4	1572.1	1579.7	1587.4
60°	37768.2	25421.6	3941.7	1963.2	1840.5	1710.1	1564.4	1472.4	1449.4	1434.0	1434.0
62.5°	37407.8	23803.5	3473.9	1894.2	1886.5	1648.8	1457.0	1357.4	1326.7	1296.0	1303.7
65°	35229.9	21495.3	2737.7	1802.1	1894.2	1610.4	1349.7	1250.0	1196.3	1158.0	1150.3
67.5°	31249.8	18351.1	2170.2	1733.1	1817.5	1541.4	1257.7	1142.6	1096.6	1058.3	1042.9
70°	24447.7	14386.4	1886.5	1641.1	1633.4	1372.7	1150.3	1050.6	981.6	935.6	935.6
72.5°	15851.1	9095.0	1618.1	1457.0	1411.0	1150.3	996.9	935.6	881.9	843.6	843.6
75°	7177.9	4225.4	1303.7	1219.3	1150.3	920.2	843.6	812.9	766.9	728.5	728.5
77.5°	2576.7	1802.1	973.9	958.6	858.9	713.2	682.5	659.5	628.8	590.5	590.5
80°	1441.7	1142.6	728.5	697.8	598.2	529.1	490.8	490.8	475.5	452.5	444.8
82.5°	912.6	743.9	536.8	467.8	391.1	352.8	337.4	329.8	322.1	291.4	283.7
85°	575.2	506.1	352.8	276.1	230.1	176.4	168.7	161.0	145.7	130.4	130.4
87.5°	260.7	291.4	138.0	84.4	61.3	38.3	23.0	7.7	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)