

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: P977483

Luminaire Tested: **EPH-VN-08-E-735-U-SL3**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977483
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-735-U-SL3
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65718.3 lumens
Efficiency: N/A
Efficacy: 104.8 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

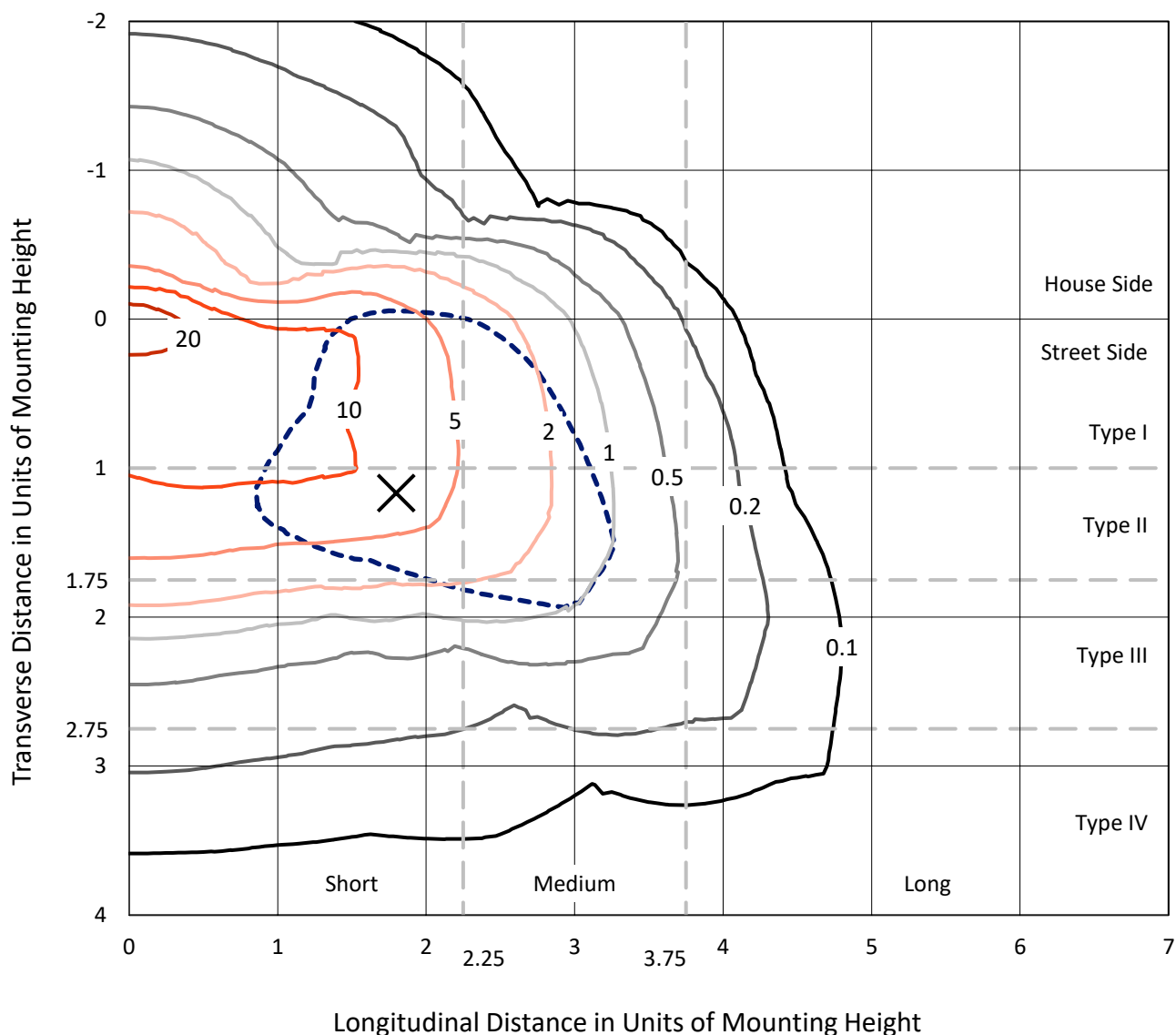
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



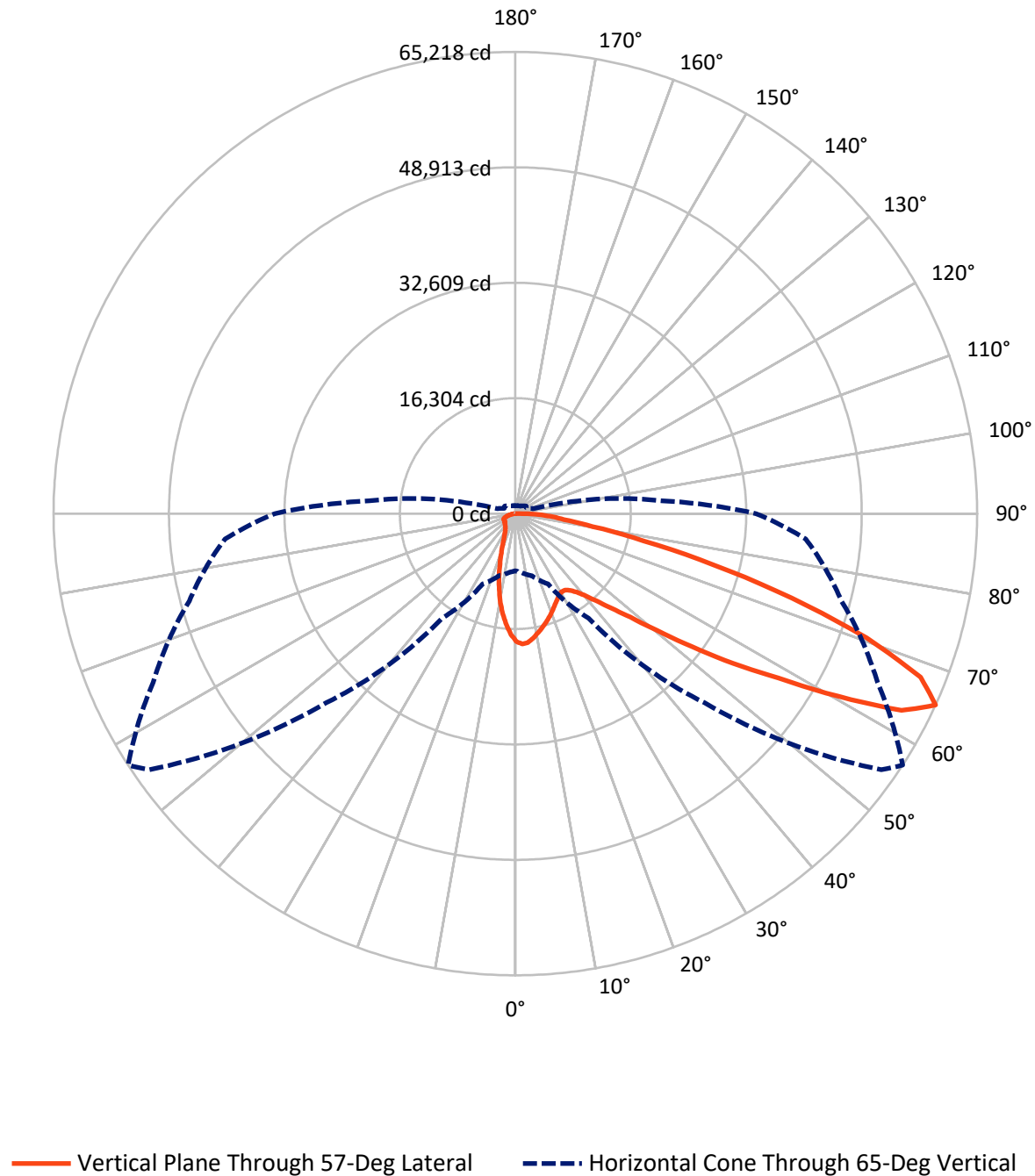
Based on 25 foot mounting height. Maximum calculated value = 28.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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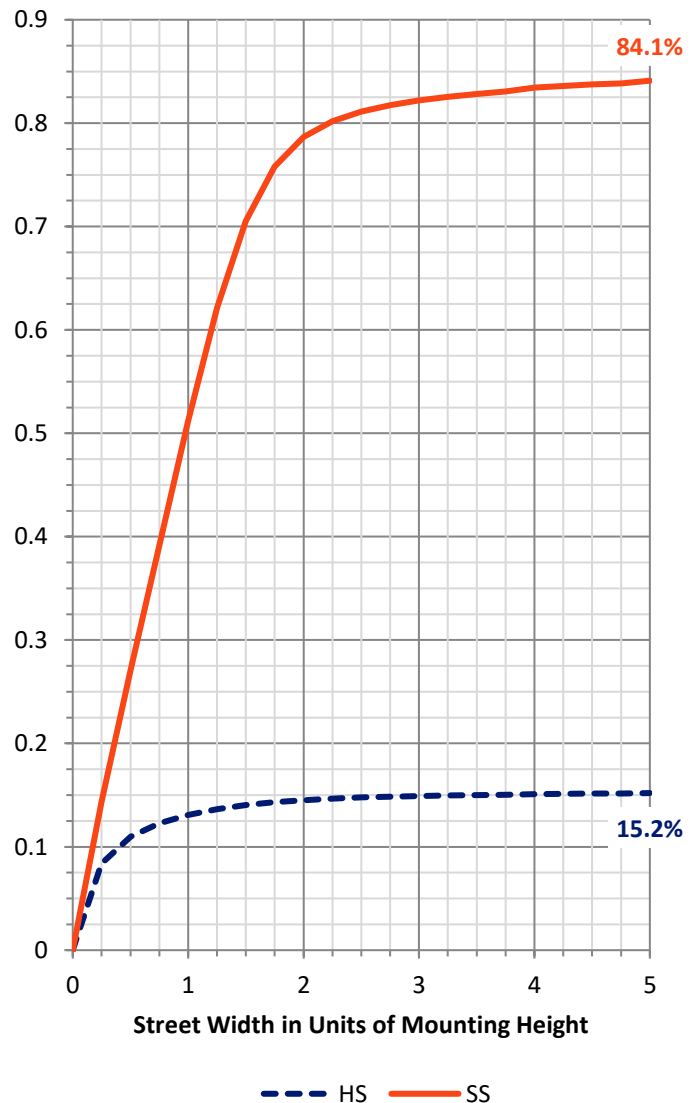
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10078.5	0.0	10078.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	55639.8	0.0	55639.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	65718.3	0.0	65718.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1513.3	2.3
10°-20°	3257.0	5.0
20°-30°	4211.0	6.4
30°-40°	5666.6	8.6
40°-50°	9035.7	13.7
50°-60°	15959.2	24.3
60°-70°	17557.2	26.7
70°-80°	7344.5	11.2
80°-90°	1173.8	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°	65718.3	100.0
0°-180°	65718.3	100.0

Coefficient of Utilization



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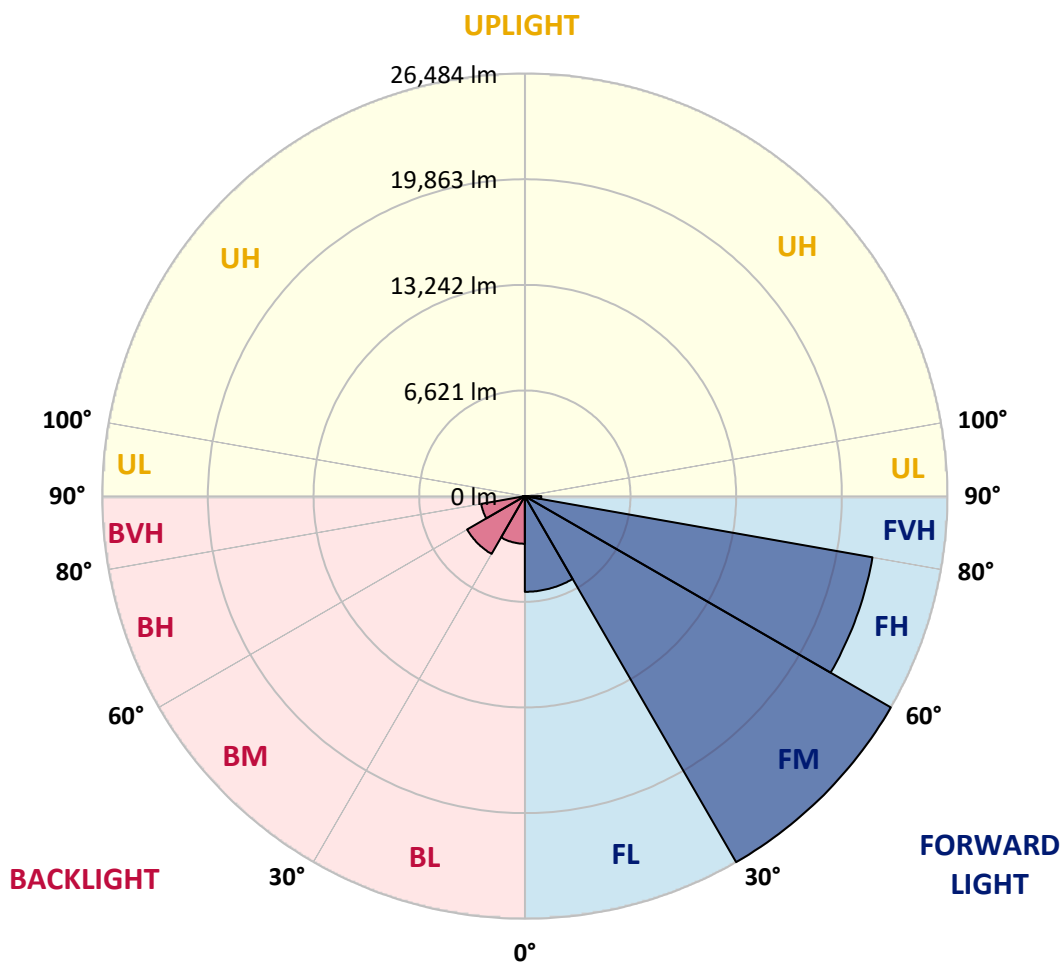
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5996.6	9.1			
FM	(30°-60°)	26484.4	40.3			
FH	(60°-80°)	22122.8	33.7			G5
FVH	(80°-90°)	1036.1	1.6			G5
BL	(0°-30°)	2984.8	4.5	B4/5000		
BM	(30°-60°)	4177.1	6.4	B3/5000		
BH	(60°-80°)	2779.0	4.2	B4/5000		G4/5000
BVH	(80°-90°)	137.7	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°	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6
2.5°	18559.6	18589.2	18589.2	18648.4	18448.7	18544.8	18530.1	18441.3	18470.9	18315.6	18160.3
5°	18034.6	18012.5	18130.8	18145.6	18300.8	18345.2	18382.2	18323.0	18337.8	17997.7	17849.8
7.5°	16688.9	16681.5	16881.1	17051.2	17376.6	17679.7	17879.4	17820.2	17901.5	17687.1	17339.6
10°	15091.7	15261.8	15468.8	15638.9	16237.8	16622.3	17139.9	17191.7	17502.3	17450.5	16822.0
12.5°	13893.8	13967.8	14123.1	14611.1	15158.3	15794.2	16533.6	16600.2	16903.3	17051.2	16504.0
15°	12910.4	12977.0	13176.6	13538.9	14152.6	14906.9	15845.9	16016.0	16622.3	16674.1	16089.9
17.5°	12193.2	12244.9	12378.0	12740.3	13243.2	14211.8	15099.1	15402.3	16200.9	16452.3	15661.1
20°	11912.2	11801.3	11875.2	12104.4	12607.2	13354.1	14500.2	14766.4	15786.8	16282.2	15254.4
22.5°	11786.5	11690.4	11734.7	11719.9	12119.2	12651.6	13856.9	14137.9	15394.9	16082.6	14892.1
25°	11882.6	11882.6	11838.2	11801.3	11845.6	12193.2	13161.8	13598.1	14869.9	15912.5	14522.4
27.5°	12400.2	12200.6	12222.7	12067.5	12023.1	12023.1	12851.3	13110.1	14699.8	15816.4	14219.2
30°	12732.9	12829.1	12836.5	12607.2	12378.0	11963.9	12562.9	12814.3	14559.3	15934.7	14041.7
32.5°	13583.3	13538.9	13413.2	13368.9	13028.7	12562.9	12703.4	12873.4	14478.0	16200.9	14093.5
35°	14433.6	14411.4	14418.8	14396.7	14041.7	13354.1	13080.5	13309.7	14625.9	16666.7	14271.0
37.5°	15313.5	15372.7	15624.1	15624.1	15247.0	14500.2	14137.9	14071.3	15165.7	17428.3	14692.4
40°	16193.5	16341.4	16659.3	17162.1	16629.7	15934.7	15350.5	15247.0	15816.4	18448.7	15705.4
42.5°	17036.4	17280.4	17908.9	18655.8	18478.3	17783.2	17006.8	16888.5	17154.7	19964.5	17117.8
45°	18116.0	18323.0	19313.9	20460.0	20704.0	20090.3	19180.8	19084.6	19069.8	22182.8	19062.4
47.5°	19757.5	19979.3	20970.2	22123.7	22877.9	22974.0	21953.6	21850.1	21495.2	25177.5	21909.2
50°	21813.1	22175.4	23011.0	24356.7	25451.1	26478.9	26190.5	25887.4	25192.3	28660.2	25517.7
52.5°	23314.2	23757.8	24889.1	26612.0	28541.9	30176.0	31211.2	31211.2	29614.1	32483.1	29858.1
55°	23713.4	23979.6	25406.7	27898.6	31203.9	35337.3	37503.8	37341.1	34878.8	36505.5	34908.4
57.5°	22123.7	22471.2	24201.5	26811.6	32601.4	40165.7	43751.9	43788.9	40631.6	41178.7	39892.1
60°	17746.3	17857.2	19898.0	23388.1	31255.6	44055.1	52284.9	52425.4	47175.5	45341.7	42428.4
62.5°	12267.1	12622.0	14160.0	17221.3	25894.8	43618.8	60514.8	61209.8	52418.0	47537.8	42827.7
65°	8074.6	8289.0	9109.7	10973.1	18027.2	37806.9	63073.2	65217.5	56425.7	47663.5	41156.5
67.5°	5856.3	5893.2	6137.3	7098.5	10832.6	27188.8	58703.2	61727.4	57926.8	46613.5	37237.6
70°	4732.3	4761.9	4850.6	5464.4	6995.0	17014.2	47877.9	52617.7	53423.7	41637.2	29991.2
72.5°	3845.0	3882.0	3992.9	4569.7	5767.5	9464.7	35011.9	40786.8	43456.2	30804.6	19935.0
75°	3024.3	3053.8	3320.0	3889.4	5420.0	6499.6	23225.4	28882.0	29244.4	18005.1	9331.6
77.5°	2070.4	2122.2	2447.5	3297.8	5102.1	5686.2	14478.0	18500.5	16600.2	7046.7	3209.1
80°	1316.2	1390.1	1582.4	2499.3	4510.5	5427.4	9006.2	11047.1	7268.6	2410.5	1545.4
82.5°	776.4	850.3	1042.6	1619.3	3541.9	5035.5	6344.3	6913.6	3408.8	1234.8	931.7
85°	428.9	480.6	628.5	976.0	2077.8	4473.5	5079.9	4961.6	1952.1	658.1	584.1
87.5°	140.5	162.7	229.2	391.9	857.7	2107.4	3046.4	2861.6	1013.0	303.2	229.2
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°	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6	18071.6
2.5°	18056.8	18034.6	17701.9	17450.5	17021.6	16666.7	16526.2	16334.0	16326.6	16186.1	16149.1
5°	17620.6	17391.3	16881.1	16393.1	15631.5	15121.3	14655.5	14330.1	14197.0	13908.6	13842.1
7.5°	17058.6	16755.4	15971.6	15054.7	14160.0	13361.5	12636.8	11912.2	11505.5	11365.0	11209.7
10°	16474.5	15942.1	14781.2	13753.4	12503.7	11276.3	10137.6	9117.1	8562.6	8170.7	8000.6
12.5°	16008.6	15298.8	13819.9	12281.9	10633.0	8991.4	7667.9	6595.7	5967.2	5671.4	5538.3
15°	15483.6	14544.5	12769.9	10825.2	8769.6	6906.3	5612.3	4769.3	4517.9	4377.4	4355.2
17.5°	14929.0	13842.1	11631.2	9390.7	6950.6	5198.2	4362.6	4022.5	3911.6	3852.4	3822.8
20°	14411.4	13213.6	10462.9	7793.6	5442.2	4170.4	3778.5	3601.0	3593.6	3623.2	3615.8
22.5°	13679.4	12392.8	9309.4	6314.7	4347.8	3630.6	3379.2	3334.8	3379.2	3416.2	3430.9
25°	13265.3	11719.9	8022.8	5013.3	3593.6	3223.9	3142.6	3127.8	3194.3	3238.7	3231.3
27.5°	12836.5	11024.9	6824.9	4015.1	3150.0	2935.5	2920.7	2935.5	3002.1	3068.6	3061.2
30°	12503.7	10470.3	5701.0	3357.0	2809.8	2728.5	2713.7	2728.5	2765.5	2772.9	2772.9
32.5°	12230.1	9812.2	4747.1	2913.3	2602.8	2536.2	2551.0	2543.6	2551.0	2558.4	2565.8
35°	12067.5	9420.3	3963.3	2639.8	2432.7	2381.0	2373.6	2351.4	2358.8	2366.2	2358.8
37.5°	12415.0	9228.1	3342.2	2447.5	2314.4	2270.0	2255.3	2240.5	2218.3	2218.3	2218.3
40°	12940.0	9124.5	2965.1	2321.8	2225.7	2173.9	2129.6	2114.8	2114.8	2122.2	2129.6
42.5°	13982.6	9294.6	2706.3	2225.7	2114.8	2055.6	2011.2	2018.6	2040.8	2063.0	2048.2
45°	15491.0	9812.2	2588.0	2151.7	2048.2	1966.9	1937.3	1929.9	1952.1	1989.1	2018.6
47.5°	17465.3	10618.2	2543.6	2085.2	2003.8	1892.9	1856.0	1878.1	1907.7	1959.5	1937.3
50°	20696.6	12429.8	2580.6	2026.0	1937.3	1856.0	1811.6	1789.4	1811.6	1848.6	1863.4
52.5°	24918.7	15720.2	2721.1	1996.5	1892.9	1826.4	1752.4	1715.5	1737.7	1767.2	1767.2
55°	29969.0	20216.0	3113.0	1959.5	1819.0	1782.0	1700.7	1626.7	1641.5	1641.5	1634.1
57.5°	34420.4	23609.9	3578.8	1907.7	1774.6	1722.9	1619.3	1530.6	1515.8	1523.2	1530.6
60°	36416.8	24512.0	3800.7	1892.9	1774.6	1648.9	1508.4	1419.7	1397.5	1382.7	1382.7
62.5°	36069.3	22951.8	3349.6	1826.4	1819.0	1589.8	1404.9	1308.8	1279.2	1249.6	1257.0
65°	33969.3	20726.2	2639.8	1737.7	1826.4	1552.8	1301.4	1205.3	1153.5	1116.5	1109.1
67.5°	30131.7	17694.5	2092.6	1671.1	1752.4	1486.2	1212.7	1101.7	1057.4	1020.4	1005.6
70°	23573.0	13871.7	1819.0	1582.4	1575.0	1323.6	1109.1	1013.0	946.5	902.1	902.1
72.5°	15284.0	8769.6	1560.2	1404.9	1360.5	1109.1	961.3	902.1	850.3	813.4	813.4
75°	6921.0	4074.2	1257.0	1175.7	1109.1	887.3	813.4	783.8	739.4	702.5	702.5
77.5°	2484.5	1737.7	939.1	924.3	828.2	687.7	658.1	635.9	606.3	569.4	569.4
80°	1390.1	1101.7	702.5	672.9	576.8	510.2	473.2	473.2	458.4	436.3	428.9
82.5°	879.9	717.2	517.6	451.1	377.1	340.1	325.3	318.0	310.6	281.0	273.6
85°	554.6	488.0	340.1	266.2	221.8	170.1	162.7	155.3	140.5	125.7	125.7
87.5°	251.4	281.0	133.1	81.3	59.2	37.0	22.2	7.4	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)