

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: P977480

Luminaire Tested: **EPH-VN-08-E-750-U-SL2**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977480
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-SL2
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2
distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68870.7 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

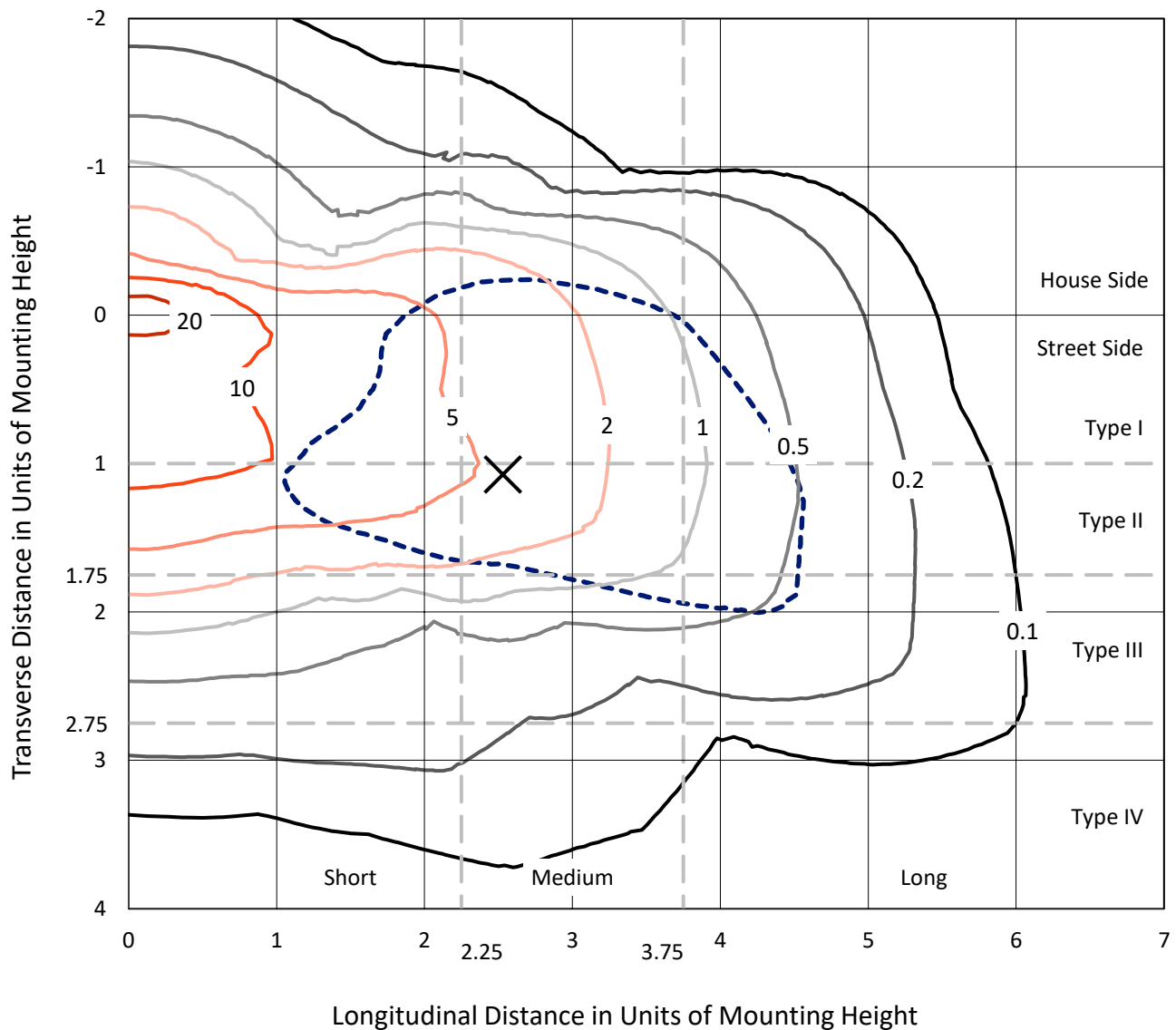
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

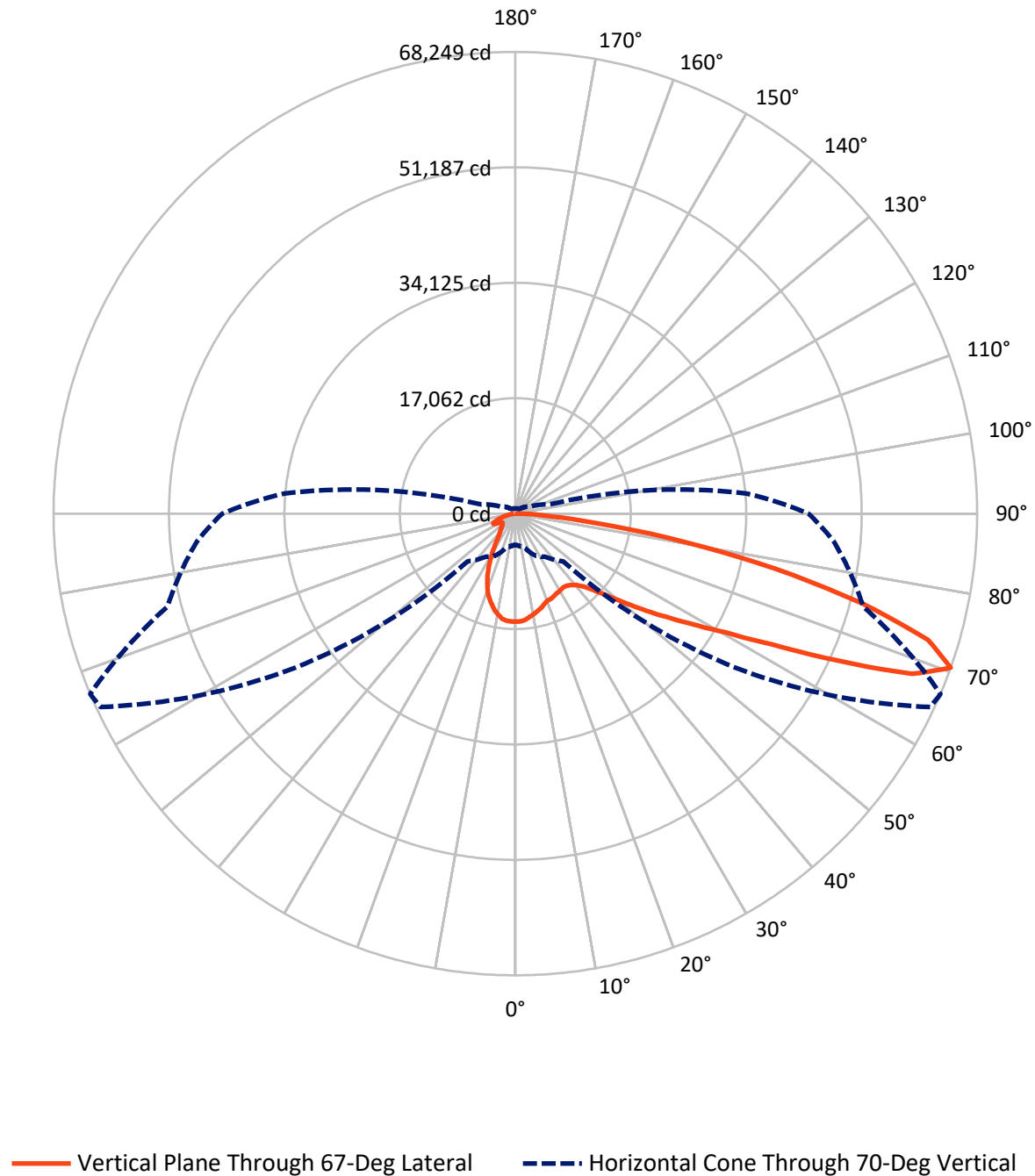


Based on 25 foot mounting height. Maximum calculated value = 25.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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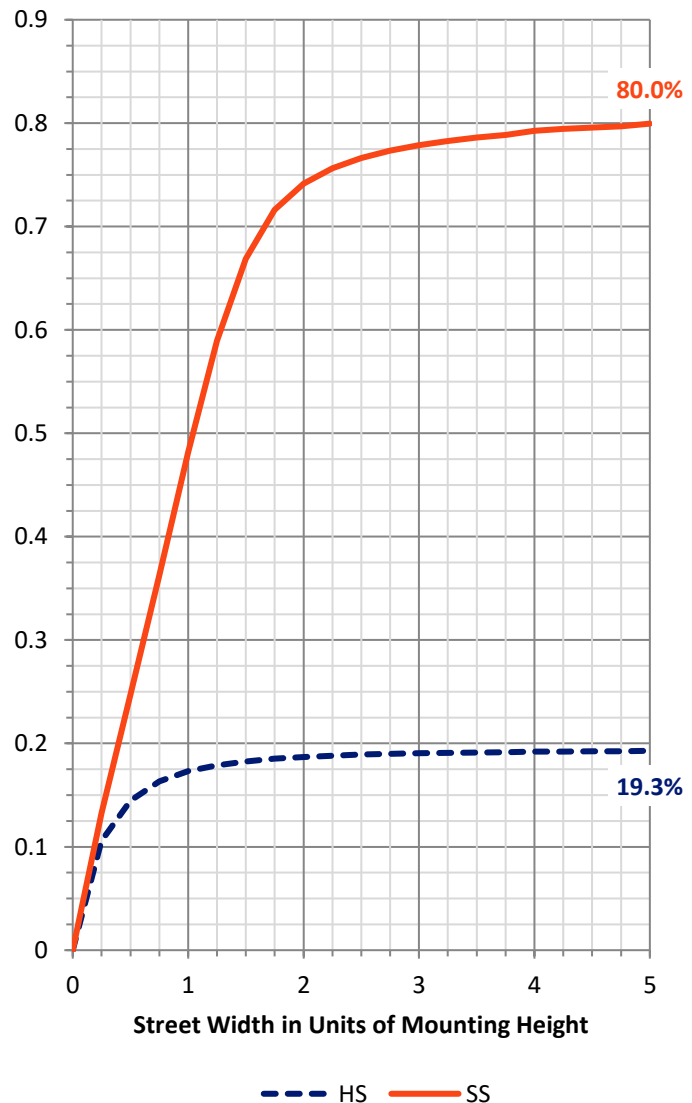
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13413.2	0.0	13413.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	55457.5	0.0	55457.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	68870.7	0.0	68870.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1391.1	2.0
10°-20°	3331.6	4.8
20°-30°	4499.1	6.5
30°-40°	6020.2	8.7
40°-50°	8852.6	12.9
50°-60°	13798.9	20.0
60°-70°	16998.0	24.7
70°-80°	12010.6	17.4
80°-90°	1968.6	2.9
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°	68870.7	100.0
0°-180°	68870.7	100.0

Coefficient of Utilization



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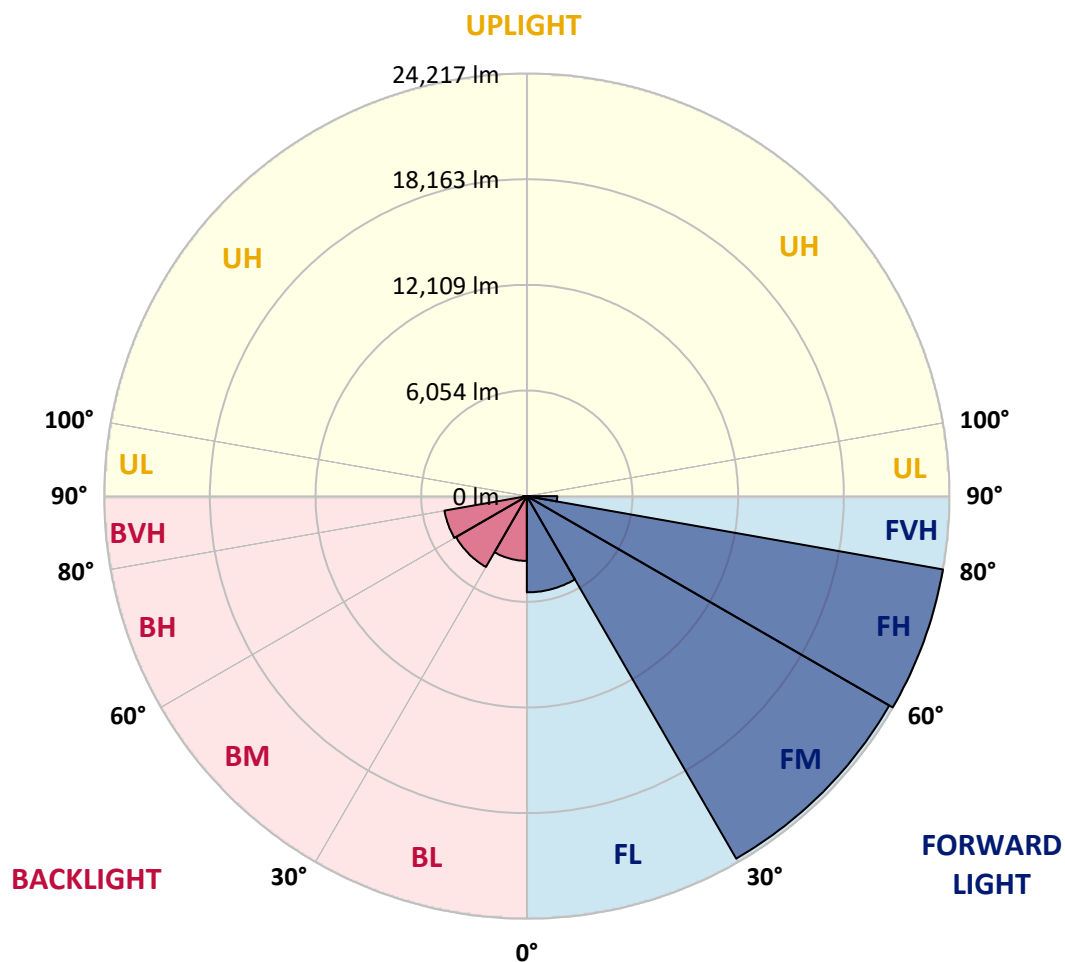
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5512.6	8.0			
FM	(30°-60°)	23986.2	34.8			
FH	(60°-80°)	24217.2	35.2			G5
FVH	(80°-90°)	1741.5	2.5			G5
BL	(0°-30°)	3709.2	5.4	B4/5000		
BM	(30°-60°)	4685.5	6.8	B3/5000		
BH	(60°-80°)	4791.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	227.1	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4
2.5°	14845.4	15013.1	15074.1	15165.6	15402.0	15577.4	15684.1	15806.1	15951.0	16073.0	16149.2
5°	13808.4	13899.9	14044.8	14143.9	14441.3	14914.0	15234.3	15752.7	15737.5	15928.1	16217.8
7.5°	12802.0	12893.5	12962.1	13160.3	13587.3	14014.3	14601.4	15440.1	15379.1	15821.4	16271.2
10°	12176.7	12108.1	12131.0	12466.5	12802.0	13282.3	14021.9	14875.9	15097.0	15783.2	16423.7
12.5°	11589.6	11513.4	11696.4	11909.9	12321.6	12756.2	13640.7	14410.8	14746.3	15646.0	16492.3
15°	11223.6	11170.3	11399.0	11490.5	11978.5	12497.0	13122.2	14060.0	14426.0	15478.2	16385.6
17.5°	11017.8	11063.5	11147.4	11345.6	11658.2	12100.5	12786.7	13823.7	13983.8	15272.4	16362.7
20°	11055.9	11109.3	11116.9	11200.8	11414.3	11757.4	12458.8	13572.1	13678.8	15234.3	16423.7
22.5°	11360.9	11284.6	11315.1	11261.8	11322.8	11589.6	12207.2	13236.6	13648.3	14914.0	16294.1
25°	11818.4	11711.6	11696.4	11513.4	11399.0	11475.2	12161.5	13152.7	13419.6	14814.9	16286.5
27.5°	12626.6	12466.5	12466.5	12192.0	11726.9	11604.9	12031.9	13015.4	13251.8	14723.4	16111.1
30°	13404.3	13404.3	13411.9	13023.1	12504.6	11902.2	12085.2	12962.1	13114.6	14448.9	15874.7
32.5°	14349.8	14326.9	14288.8	14098.2	13297.6	12397.8	12344.5	12893.5	12969.7	14357.4	15806.1
35°	15272.4	15211.4	15508.7	15341.0	14525.1	13366.2	12611.3	12924.0	13091.7	14220.2	15592.6
37.5°	15966.2	16004.4	16622.0	16728.7	16027.2	14464.2	13366.2	13228.9	13389.1	14418.4	15592.6
40°	16865.9	17018.4	17597.9	17956.3	17529.3	15912.9	14563.3	13739.8	13854.2	14860.6	15928.1
42.5°	18047.8	18177.4	18917.0	19382.1	19260.1	17758.0	15745.1	14807.3	14715.8	15600.2	16431.3
45°	19610.9	19633.7	20381.0	21021.4	21273.1	19687.1	17620.8	16156.8	16080.6	16873.6	17353.9
47.5°	21471.3	21448.4	21913.5	22599.8	23278.4	21989.8	19778.6	18207.9	17933.4	18695.9	18886.5
50°	23270.7	23171.6	23278.4	24155.2	25459.0	24871.9	22401.5	20716.4	20442.0	20861.3	21189.2
52.5°	24262.0	24384.0	24094.2	25253.2	27777.0	28280.2	25878.4	23713.0	23476.6	23682.5	24254.3
55°	23568.1	23819.7	23629.1	24727.1	28791.1	32435.7	30377.0	27182.2	26877.2	26801.0	27738.8
57.5°	20617.3	21074.8	21112.9	22851.4	28440.3	35653.3	36705.5	31276.7	30819.2	30041.5	31009.9
60°	15829.0	16286.5	16637.2	18695.9	25436.2	37574.8	44040.6	37102.0	35592.3	33579.4	34158.9
62.5°	11094.0	11406.6	11757.4	13023.1	19610.9	36446.3	50384.4	45306.3	42523.2	37307.9	38032.3
65°	8082.2	8326.2	8684.6	9431.8	12047.1	30155.9	53327.5	55050.7	52412.5	42050.5	41959.0
67.5°	6084.6	6237.0	6709.8	7906.9	8349.1	18627.3	50277.6	65344.1	63209.2	47319.2	45115.6
70°	4605.3	4735.0	5177.2	6816.5	7800.1	9988.4	39664.0	67639.2	68249.1	53228.4	47235.3
72.5°	3171.9	3316.8	3812.4	5680.4	7426.5	7922.1	24894.8	61447.9	63758.2	55660.7	44963.2
75°	1944.3	2043.4	2333.2	4308.0	7373.1	7746.7	13701.7	50353.9	52801.4	51428.9	39336.1
77.5°	1372.5	1364.8	1418.2	2523.8	6389.5	7792.5	8448.2	36896.2	39275.1	37902.6	26694.3
80°	998.8	1006.5	1059.8	1509.7	4338.5	7922.1	6656.4	24711.8	25420.9	19763.4	10529.8
82.5°	602.4	632.9	762.5	1021.7	2607.7	7152.0	6153.2	13732.2	12847.7	6343.8	2897.4
85°	320.2	320.2	449.9	648.1	1387.7	5337.3	5924.4	6534.4	5474.6	1967.2	1075.1
87.5°	76.2	76.2	129.6	259.2	556.6	2554.3	4041.1	2600.0	2081.6	663.4	442.2
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°	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4	15943.4
2.5°	16118.7	16027.2	16141.6	15912.9	15729.9	15737.5	15455.4	15440.1	15402.0	15203.8	15272.4
5°	16301.7	16225.5	16095.8	15844.2	15440.1	15036.0	14792.0	14479.4	14349.8	14281.2	14311.7
7.5°	16477.1	16339.8	15966.2	15615.5	14990.3	14227.8	13785.5	13366.2	12832.5	12771.5	12664.7
10°	16522.8	16233.1	15752.7	15005.5	14174.4	13328.1	12321.6	11543.9	11132.1	10811.9	10689.9
12.5°	16454.2	16332.2	15409.6	14448.9	13190.8	11864.1	10689.9	9591.9	8829.5	8433.0	8326.2
15°	16446.6	16233.1	15028.4	13602.6	11993.7	10262.9	8593.1	7274.0	6473.4	6145.5	6145.5
17.5°	16454.2	15943.4	14578.5	12748.6	10583.2	8242.4	6404.8	5322.1	4879.8	4834.1	4872.2
20°	16301.7	15729.9	14105.8	11742.1	8814.2	6191.3	4651.1	4208.9	4208.9	4269.9	4292.7
22.5°	16164.5	15409.6	13358.6	10499.3	7014.8	4483.4	3781.9	3652.3	3797.1	3903.9	3949.6
25°	15973.9	15142.8	12596.1	9210.7	5337.3	3614.1	3286.3	3316.8	3454.0	3644.6	3629.4
27.5°	15699.4	14677.6	11688.7	7716.2	3972.5	3118.5	3034.7	3049.9	3194.8	3278.6	3263.4
30°	15386.7	14204.9	10850.0	6229.4	3149.0	2859.3	2851.7	2889.8	2912.7	2958.4	2950.8
32.5°	14990.3	13579.7	9957.9	4841.7	2836.4	2714.4	2683.9	2661.0	2683.9	2676.3	2653.4
35°	14708.1	13244.2	9050.6	3690.4	2661.0	2584.8	2561.9	2523.8	2493.3	2447.5	2439.9
37.5°	14631.9	12908.7	8097.5	3011.8	2523.8	2485.7	2409.4	2340.8	2302.7	2279.8	2264.6
40°	14586.1	12687.6	7167.3	2645.8	2409.4	2371.3	2279.8	2188.3	2150.2	2127.3	2134.9
42.5°	14746.3	12565.6	6221.8	2462.8	2310.3	2241.7	2142.6	2035.8	2028.2	2012.9	2035.8
45°	15310.5	12718.1	5345.0	2333.2	2211.2	2096.8	1967.2	1913.8	1906.2	1890.9	1906.2
47.5°	16591.5	13099.3	4597.7	2249.3	2104.4	2005.3	1868.1	1791.8	1784.2	1776.6	1776.6
50°	18360.4	14273.5	3972.5	2150.2	2035.8	1898.6	1768.9	1685.1	1669.8	1639.3	1639.3
52.5°	21135.8	16248.3	3598.9	2096.8	1913.8	1799.4	1662.2	1570.7	1532.6	1502.1	1502.1
55°	24262.0	18695.9	3530.3	2005.3	1784.2	1677.4	1555.4	1464.0	1425.8	1387.7	1372.5
57.5°	27822.7	21936.4	4018.2	1944.3	1692.7	1555.4	1418.2	1334.3	1303.8	1265.7	1250.5
60°	31139.5	25169.3	5535.6	1852.8	1608.8	1441.1	1303.8	1220.0	1181.8	1143.7	1143.7
62.5°	34974.7	29172.3	8105.1	1852.8	1532.6	1319.1	1181.8	1120.8	1098.0	1059.8	1052.2
65°	39511.5	33312.5	9980.8	1967.2	1509.7	1212.3	1067.5	1006.5	983.6	960.7	953.1
67.5°	42965.5	35691.5	8585.5	2272.2	1608.8	1120.8	953.1	915.0	899.7	876.8	861.6
70°	43331.5	34242.8	5177.2	2455.2	1707.9	1029.3	854.0	815.8	815.8	793.0	777.7
72.5°	40045.2	30384.6	3484.5	2188.3	1547.8	922.6	754.9	724.4	709.1	693.9	686.2
75°	33510.8	25771.7	2752.5	1746.1	1189.5	762.5	655.7	625.2	602.4	594.7	579.5
77.5°	22508.3	16751.6	2035.8	1364.8	876.8	617.6	549.0	518.5	495.6	488.0	465.1
80°	8646.5	6381.9	1311.5	991.2	617.6	488.0	434.6	404.1	388.9	366.0	350.7
82.5°	2546.7	2066.3	732.0	610.0	396.5	335.5	312.6	289.7	266.9	244.0	236.4
85°	1052.2	945.5	449.9	320.2	244.0	198.2	183.0	160.1	137.2	122.0	106.7
87.5°	488.0	404.1	205.9	122.0	83.9	45.7	22.9	7.6	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)