

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: P977433

Luminaire Tested: **EPH-VN-08-E-735-U-T2**

Issue Date: 03/26/2025



Test Information

Test Method: LM-79-08
Report Number: P977433
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-T2
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66522 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - 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

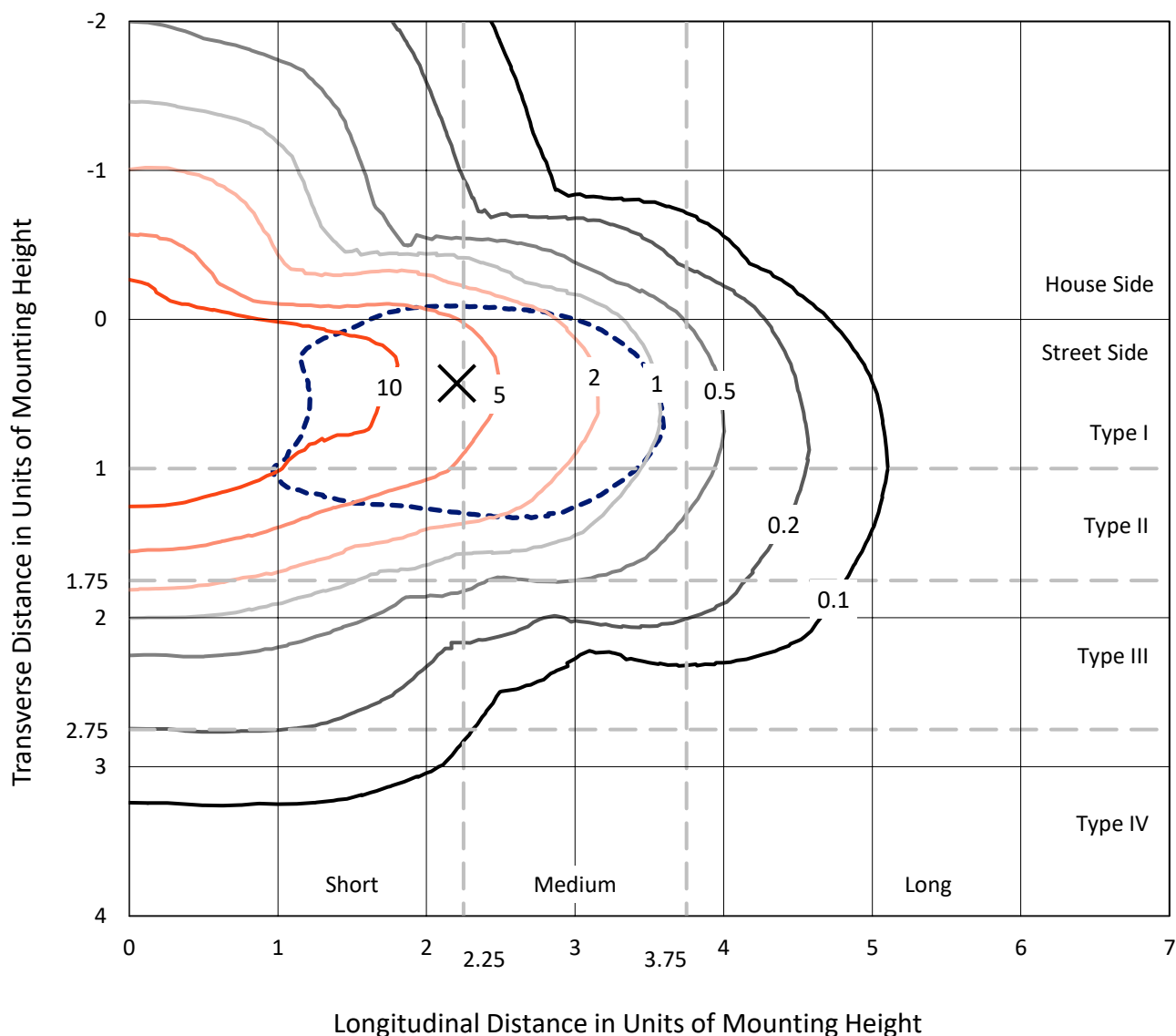
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

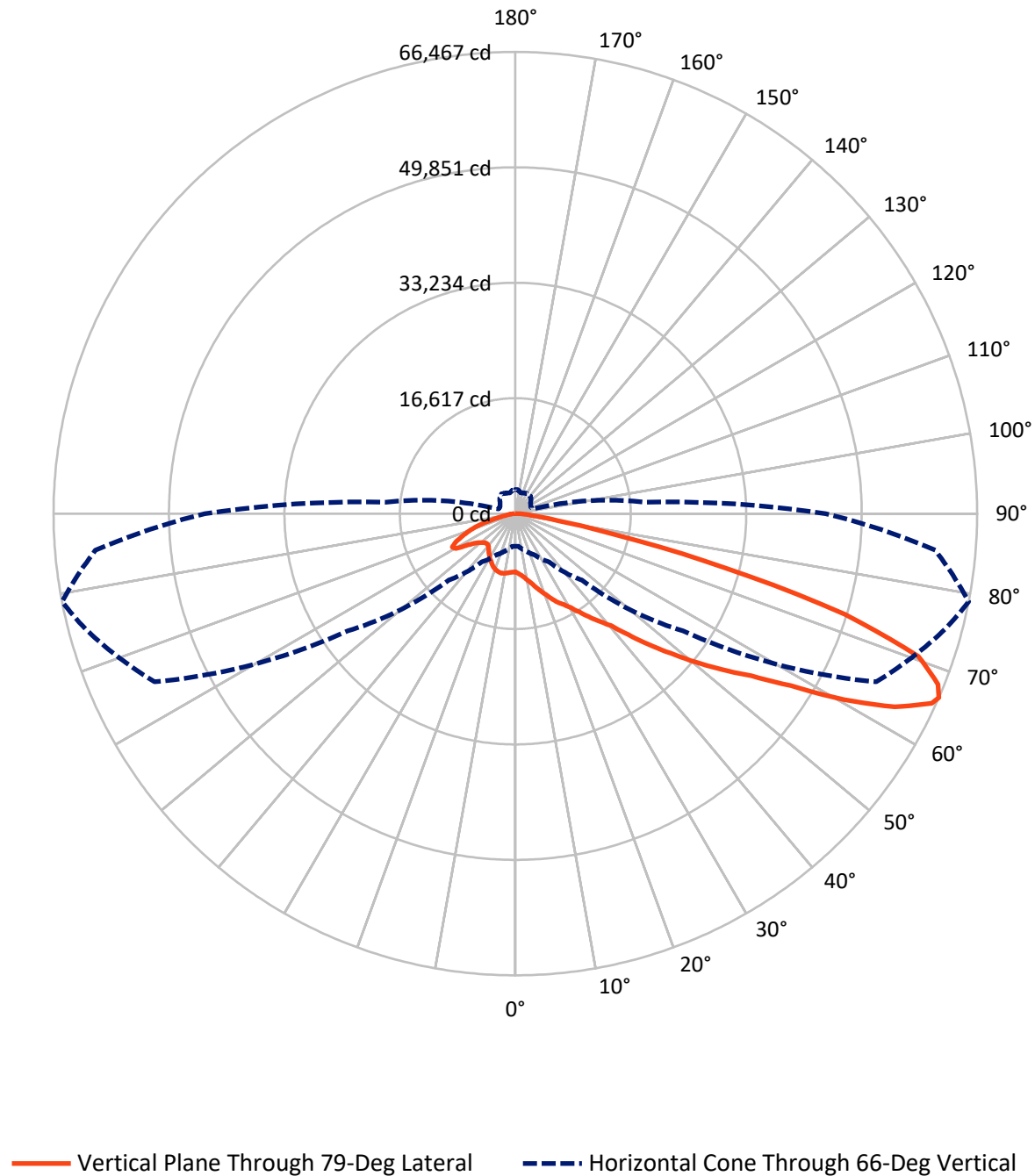


Based on 25 foot mounting height. Maximum calculated value = 17 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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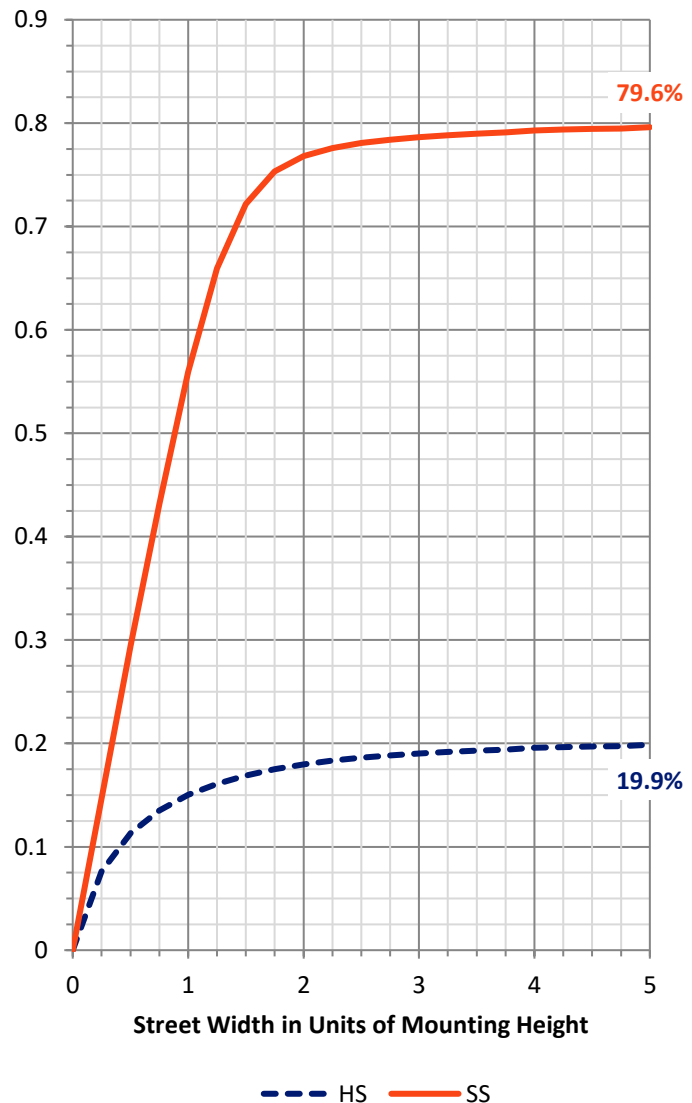
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13433.2	0.0	13433.2
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	53088.9	0.0	53088.9
	% Fixture	79.8	0.0	79.8
Total	Lumens	66522.0	0.0	66522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.0	1.2
10°-20°	2550.5	3.8
20°-30°	4378.1	6.6
30°-40°	6763.2	10.2
40°-50°	10833.0	16.3
50°-60°	16174.4	24.3
60°-70°	16619.2	25.0
70°-80°	7367.0	11.1
80°-90°	1010.8	1.5
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°	66522.0	100.0
0°-180°	66522.0	100.0

Coefficient of Utilization



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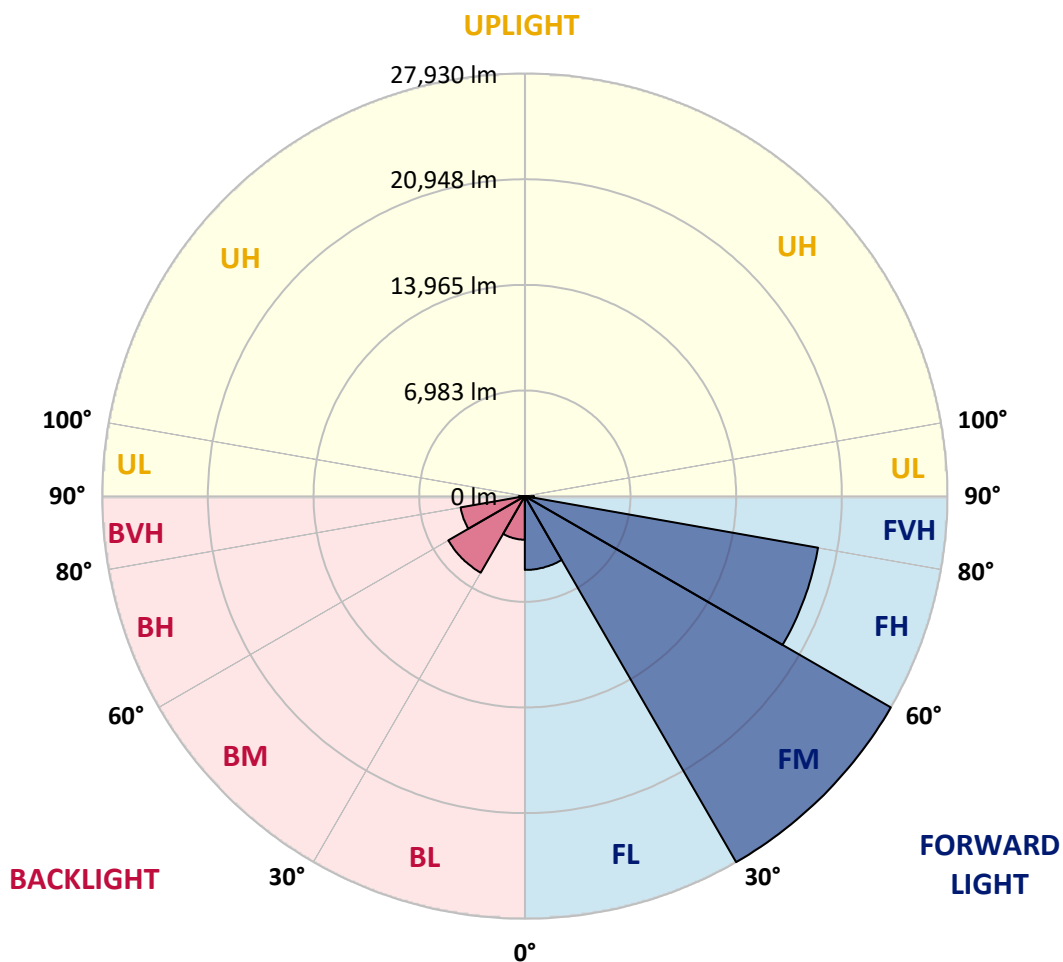
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4876.5	7.3			
FM	(30°-60°)	27930.4	42.0			
FH	(60°-80°)	19675.7	29.6			G5
FVH	(80°-90°)	606.3	0.9			G4/750
BL	(0°-30°)	2878.0	4.3	B4/5000		
BM	(30°-60°)	5840.1	8.8	B4/8500		
BH	(60°-80°)	4310.5	6.5	B4/5000		G4/5000
BVH	(80°-90°)	404.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9
2.5°	8934.0	8941.3	8941.3	8912.1	8919.4	8941.3	8860.9	8685.3	8685.3	8656.0	8604.8
5°	9482.8	9446.2	9395.0	9402.3	9373.0	9373.0	9285.2	9117.0	8970.6	8912.1	8758.4
7.5°	9556.0	9592.6	9585.2	9673.0	9716.9	9716.9	9760.8	9621.8	9402.3	9263.3	9109.6
10°	9702.3	9607.2	9599.9	9804.7	9870.6	10024.3	10199.9	10126.7	9943.8	9746.2	9541.3
12.5°	9790.1	9848.7	9848.7	9951.1	10104.7	10331.6	10638.9	10777.9	10492.5	10287.7	9973.0
15°	9921.8	9841.3	10075.5	10163.3	10456.0	10616.9	11056.0	11414.5	11224.2	10975.5	10477.9
17.5°	9980.4	9929.1	10060.8	10221.8	10719.4	10960.8	11495.0	11992.5	11831.6	11670.6	11158.4
20°	10280.4	10273.0	10331.6	10463.3	10821.8	11297.4	11963.3	12651.1	12709.6	12416.9	11721.8
22.5°	11012.1	10916.9	10916.9	10865.7	11019.4	11509.6	12409.6	13360.8	13624.2	13280.3	12358.4
25°	11685.2	11816.9	11736.4	11502.3	11443.8	11699.8	12731.5	14114.4	14465.7	14143.7	13221.8
27.5°	12548.6	12592.5	12731.5	12416.9	12014.5	12095.0	13082.8	14538.8	15263.2	14831.5	13712.0
30°	13792.5	13712.0	13682.7	13331.5	12804.7	12695.0	13485.2	15160.8	16309.5	15702.2	14290.1
32.5°	14634.0	14831.5	14824.2	14341.3	13704.7	13463.2	13982.7	15746.1	17429.0	16865.6	15358.3
35°	16302.2	16507.1	16346.1	15636.4	14890.0	14407.1	14699.8	16507.1	18709.5	18270.5	16265.6
37.5°	18431.5	18914.4	18570.5	17260.8	16207.1	15680.3	15694.9	17333.9	20019.3	19660.7	17238.8
40°	19902.2	20553.4	20077.8	18848.5	17729.0	17231.5	17033.9	18314.4	21585.1	21204.6	18760.7
42.5°	21724.1	22265.6	22016.8	20802.2	19492.4	19068.0	18672.9	19953.4	23977.7	23802.1	20714.4
45°	23714.3	23970.4	23889.9	23121.6	21665.6	21519.2	20648.5	22111.9	26794.8	26867.9	23158.2
47.5°	25565.5	25704.5	25858.2	25302.1	24394.8	24519.2	22924.1	24424.1	29531.3	30014.2	25880.1
50°	26041.1	26516.7	26875.3	27248.4	27446.0	28287.4	25433.8	27263.1	32677.6	33614.2	28909.4
52.5°	25558.2	25521.6	26611.8	27782.6	29758.1	31521.5	28850.8	30789.8	35458.1	37309.3	31682.5
55°	23363.1	23289.9	25046.0	26597.2	30453.3	33321.5	33731.3	35487.3	38816.6	41223.9	35436.1
57.5°	19521.7	19068.0	20985.1	23531.4	28946.0	33519.1	38633.6	42460.4	43982.4	46726.2	41165.3
60°	13119.3	12929.1	14765.7	17802.2	23502.1	30716.7	41567.7	51189.6	51262.7	54350.5	50055.4
62.5°	8077.9	8114.5	9292.6	11568.1	16455.9	24350.9	40301.9	58162.7	58177.3	61272.4	57372.4
65°	5282.9	5304.8	6256.0	7514.5	10280.4	16514.4	33328.8	58711.4	62984.5	65860.1	60723.6
66°	4704.8	4712.1	5531.6	6556.0	8517.0	13514.5	29436.2	57284.6	64067.5	66467.4	60679.7
67.5°	3965.8	4060.9	4719.5	5509.7	6643.8	9709.6	23355.8	53157.8	63511.4	65618.7	59304.1
70°	3102.4	3153.6	3673.1	4478.0	4982.9	5619.4	13880.3	43331.1	58133.4	61550.4	54299.3
72.5°	2487.8	2531.7	2926.8	3636.5	4046.3	3702.4	7558.4	31441.1	45921.4	49565.2	42709.2
75°	2100.0	2107.3	2297.5	2860.9	3329.2	2780.5	4024.3	20180.2	29465.5	31163.0	26165.5
77.5°	1697.5	1726.8	1858.5	2180.5	2678.0	2187.8	2400.0	11304.7	14794.9	14919.3	12095.0
80°	1382.9	1397.5	1478.0	1587.8	2041.4	1617.1	1624.4	5517.0	6343.8	6197.5	4917.0
82.5°	1090.2	1104.9	1200.0	1178.0	1500.0	1156.1	1009.7	2656.1	2919.5	2860.9	2260.9
85°	614.6	614.6	943.9	943.9	951.2	731.7	614.6	1251.2	1543.9	1441.4	1061.0
87.5°	197.6	204.9	285.4	300.0	475.6	329.3	300.0	468.3	731.7	643.9	380.5
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°	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9	8399.9
2.5°	8575.5	8458.4	8407.2	8238.9	8195.0	8085.3	8034.0	7968.2	7946.2	7851.1	7938.9
5°	8641.4	8604.8	8399.9	8187.7	8026.7	7953.6	7843.8	7697.5	7682.8	7551.1	7536.5
7.5°	8919.4	8795.0	8436.5	8209.6	7887.7	7704.8	7463.3	7390.1	7295.0	7251.1	7346.2
10°	9351.1	9036.5	8502.3	7931.6	7536.5	7317.0	7141.4	7090.2	7097.5	7068.2	7024.3
12.5°	9658.4	9358.4	8392.6	7697.5	7185.3	6973.1	6958.4	7009.7	7090.2	7053.6	7104.8
15°	10097.4	9534.0	8312.1	7309.7	6899.9	6841.4	6834.1	6987.7	6980.4	6980.4	6973.1
17.5°	10507.2	9709.6	8019.4	6973.1	6599.9	6643.8	6695.0	6687.7	6760.9	6790.2	6841.4
20°	11026.7	9914.5	7609.7	6636.5	6373.1	6358.5	6351.1	6358.5	6431.6	6475.5	6438.9
22.5°	11480.3	9958.4	7265.8	6314.6	6102.4	6043.8	5948.7	6043.8	6007.2	6021.9	6065.8
25°	11875.5	9965.7	6775.5	6073.1	5831.6	5699.9	5626.8	5619.4	5553.6	5546.3	5546.3
27.5°	12204.7	9716.9	6343.8	5736.5	5509.7	5385.3	5378.0	5297.5	5129.2	5019.4	5034.1
30°	12460.8	9526.7	6043.8	5443.8	5224.3	5202.4	5136.5	4953.6	4734.1	4595.1	4595.1
32.5°	12914.5	9146.2	5634.1	5143.8	5034.1	5004.8	4851.2	4690.2	4485.3	4353.6	4331.7
35°	13251.0	8795.0	5363.3	4887.7	4836.5	4778.0	4646.3	4470.7	4412.1	4382.9	4404.8
37.5°	13631.5	8399.9	5034.1	4668.2	4719.5	4609.7	4456.0	4375.6	4580.4	4529.2	4551.2
40°	14238.8	8121.8	4712.1	4536.5	4587.7	4463.4	4265.8	4236.5	4492.6	4309.7	4265.8
42.5°	15351.0	8114.5	4514.6	4339.0	4375.6	4280.4	4104.8	4090.2	4192.6	3973.1	3907.3
45°	16733.9	8370.6	4368.2	4192.6	4163.4	4148.7	4090.2	4024.3	3936.5	3651.2	3578.0
47.5°	18387.6	8787.7	4339.0	3973.1	4009.7	4134.1	4060.9	3892.6	3665.8	3482.9	3446.3
50°	20392.4	9651.1	4265.8	3812.1	3878.0	4075.6	4017.0	3782.9	3578.0	3460.9	3439.0
52.5°	22609.5	10741.3	4170.7	3563.4	3709.7	4024.3	4053.6	3834.1	3534.1	3431.7	3417.0
55°	25221.6	12351.1	4060.9	3292.6	3512.1	3973.1	4053.6	3687.8	3475.6	3475.6	3460.9
57.5°	30380.1	15248.6	3834.1	3043.9	3336.5	3878.0	3936.5	3695.1	3482.9	3482.9	3453.6
60°	37945.8	19770.5	3402.4	2853.6	3168.3	3746.3	3848.7	3585.3	3402.4	3446.3	3439.0
62.5°	43865.3	21146.1	3036.5	2670.7	3000.0	3504.8	3731.7	3468.2	3307.3	3468.2	3482.9
65°	45131.1	19755.8	2663.4	2473.1	2765.8	3270.7	3563.4	3300.0	3168.3	3482.9	3497.5
66°	44677.5	18672.9	2531.7	2414.6	2663.4	3153.6	3460.9	3241.4	3095.1	3468.2	3475.6
67.5°	42658.0	17048.6	2385.3	2290.2	2524.4	2985.3	3343.9	3160.9	2978.0	3424.3	3358.5
70°	38267.8	14458.3	2136.6	2070.7	2326.8	2707.3	3073.1	2956.1	2795.1	3153.6	3036.5
72.5°	29472.8	11553.5	1873.1	1880.5	2100.0	2421.9	2802.4	2721.9	2582.9	2765.8	2692.6
75°	17948.5	7382.8	1631.7	1646.3	1829.2	2151.2	2546.3	2487.8	2319.5	2421.9	2385.3
77.5°	7953.6	3658.5	1375.6	1404.9	1551.2	1895.1	2217.0	2121.9	1946.3	1968.3	1953.6
80°	3087.8	1734.1	1119.5	1156.1	1251.2	1514.6	1836.6	1748.8	1595.1	1565.8	1551.2
82.5°	1485.3	965.8	863.4	878.0	914.6	1207.3	1580.5	1470.7	1265.8	1134.1	1134.1
85°	746.3	600.0	607.3	556.1	607.3	819.5	1068.3	892.7	739.0	658.5	673.2
87.5°	300.0	300.0	300.0	256.1	270.7	387.8	497.6	336.6	307.3	182.9	182.9
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)