

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: P977462

Luminaire Tested: **EPH-VN-08-E-730-U-5NQ**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977462
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-730-U-5NQ
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61329.1 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

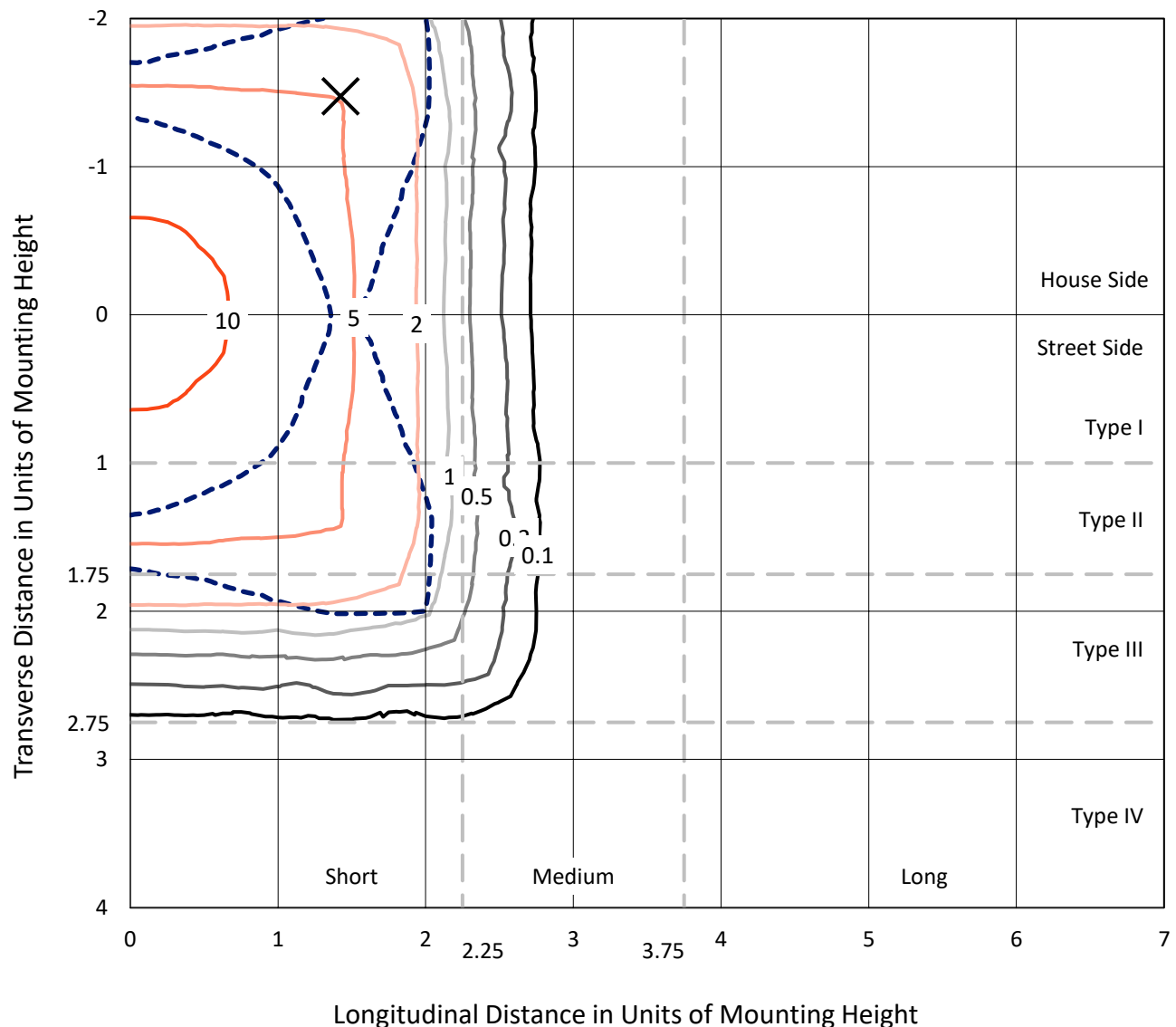
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

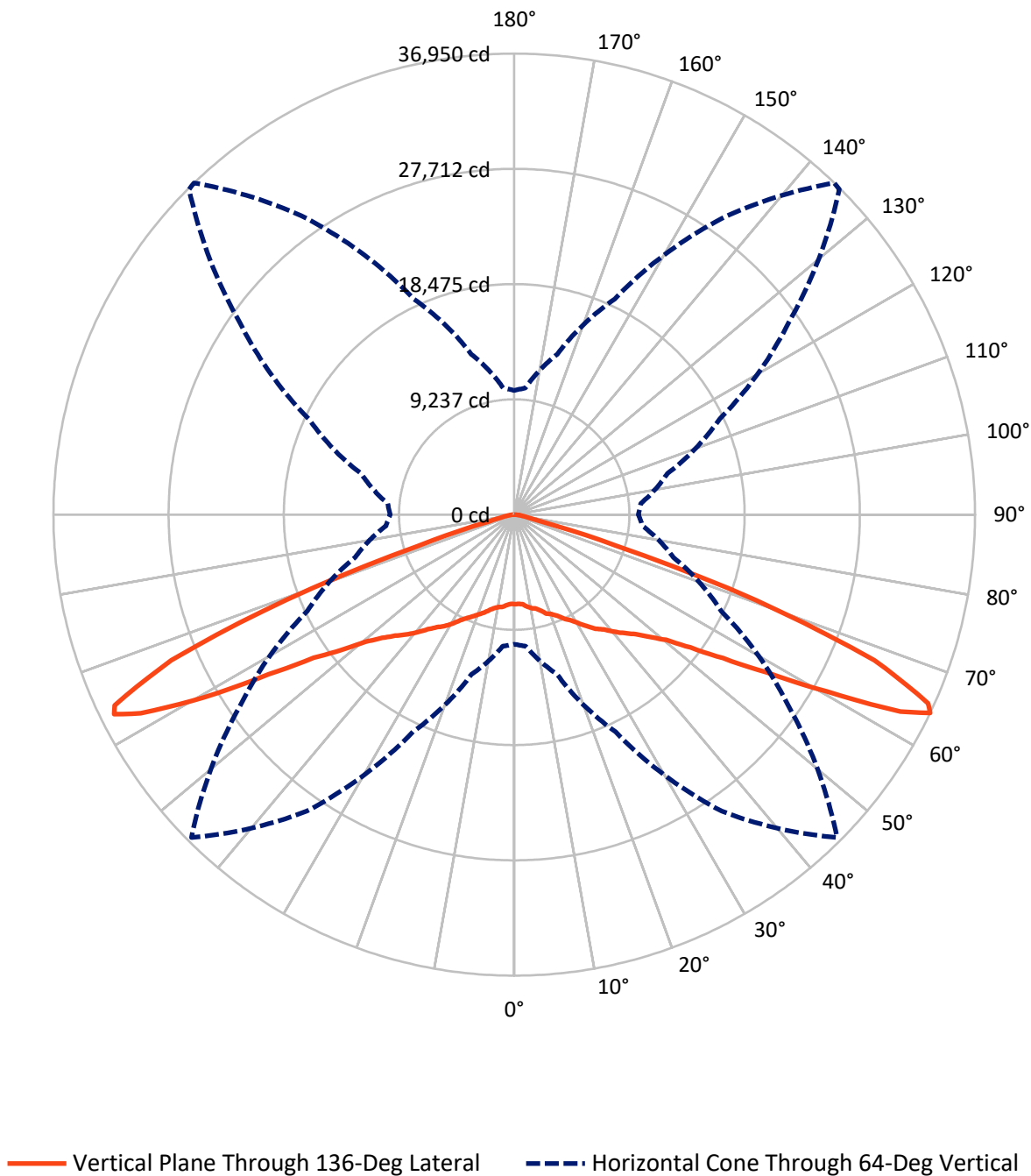


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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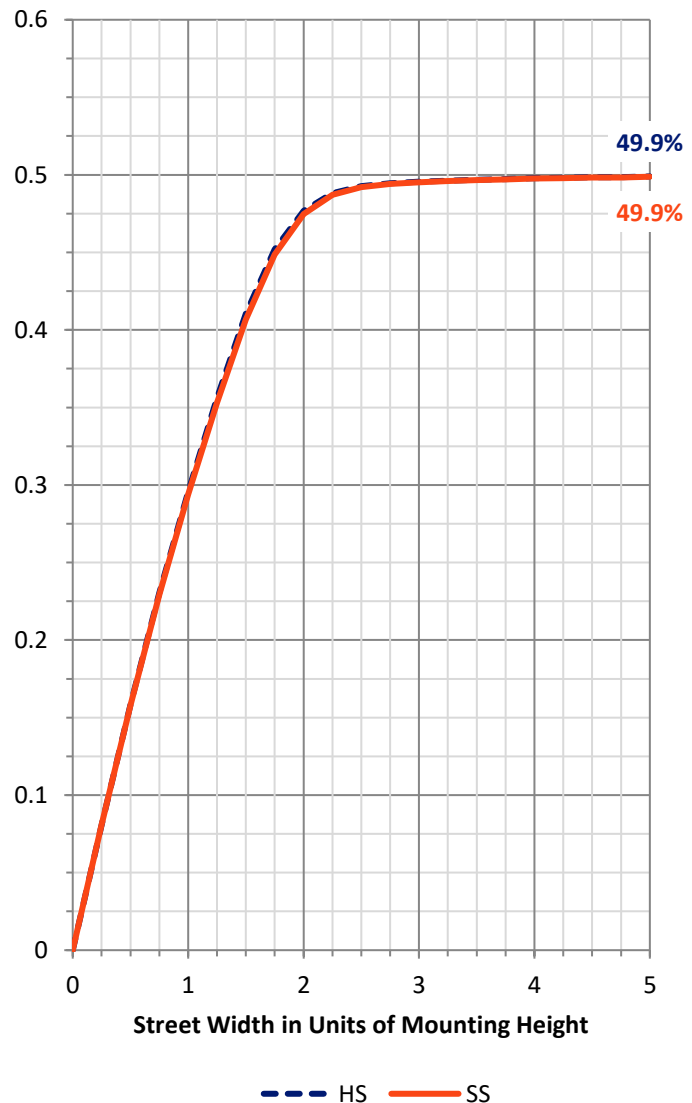
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30693.8	0.0	30693.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30635.3	0.0	30635.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	61329.1	0.0	61329.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.5	1.2
10°-20°	2273.9	3.7
20°-30°	4273.6	7.0
30°-40°	7047.9	11.5
40°-50°	11022.5	18.0
50°-60°	17809.6	29.0
60°-70°	16036.4	26.1
70°-80°	1899.6	3.1
80°-90°	260.0	0.4
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°	61329.1	100.0
0°-180°	61329.1	100.0

Coefficient of Utilization



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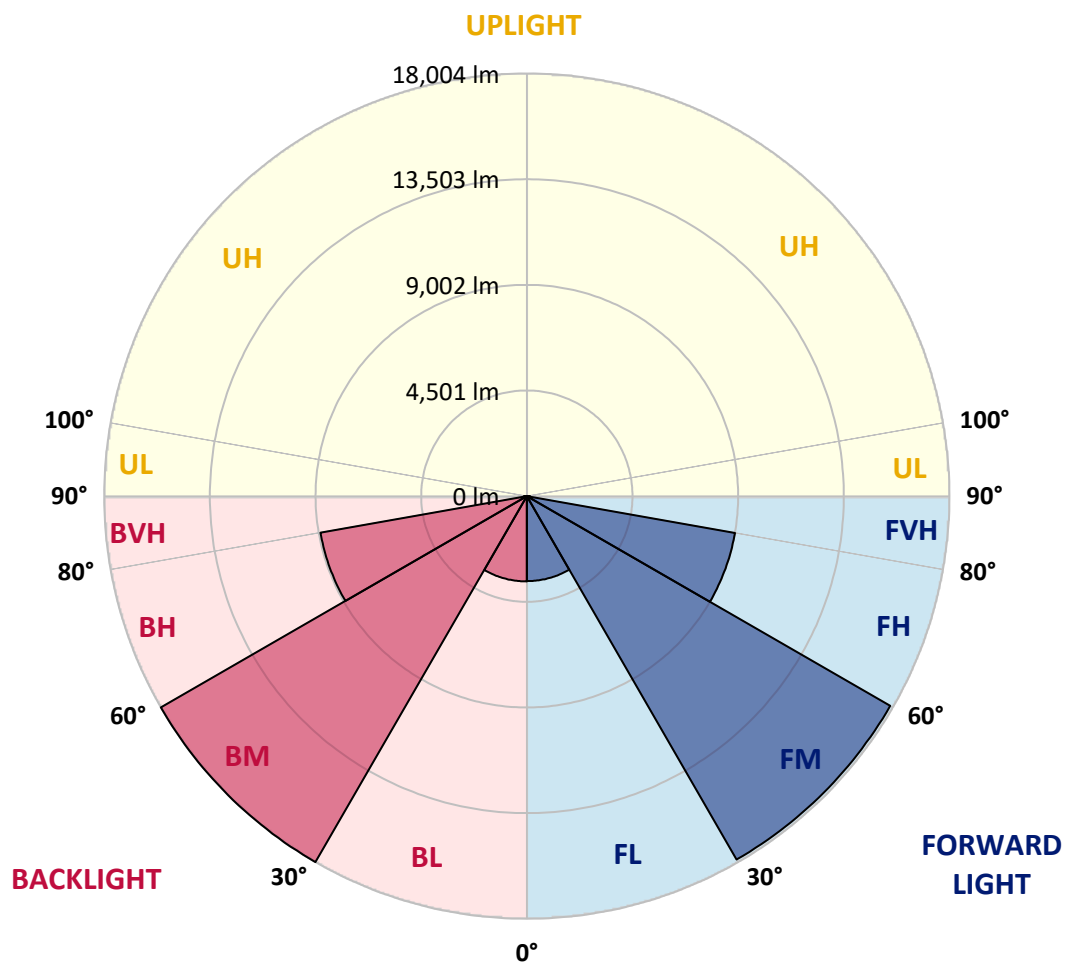
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3619.5	5.9			
FM	(30°-60°)	17875.5	29.1			
FH	(60°-80°)	9006.9	14.7			G4/12000
FVH	(80°-90°)	133.4	0.2			G2/225
BL	(0°-30°)	3633.5	5.9	B4/5000		
BM	(30°-60°)	18004.5	29.4	B5		
BH	(60°-80°)	8929.1	14.6	B5		G4/12000
BVH	(80°-90°)	126.6	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4
2.5°	7096.0	7110.0	7236.6	7187.4	7229.6	7152.2	7208.5	7328.1	7187.4	7292.9	7328.1
5°	7173.3	7194.4	7194.4	7243.7	7271.8	7257.7	7292.9	7243.7	7377.3	7321.0	7405.4
7.5°	7454.7	7419.5	7363.2	7405.4	7412.5	7447.6	7482.8	7546.1	7525.0	7475.7	7560.1
10°	7503.9	7475.7	7560.1	7567.2	7532.0	7503.9	7539.0	7539.0	7602.3	7616.4	7616.4
12.5°	7588.3	7616.4	7609.4	7665.6	7672.7	7651.6	7707.8	7813.3	7785.2	7806.3	7757.1
15°	7911.8	7876.6	7869.6	7925.8	8017.3	7883.6	7982.1	7975.1	7946.9	7989.1	7876.6
17.5°	8193.1	8080.6	8129.8	8221.2	8186.0	8214.2	8340.8	8228.2	8256.4	8207.1	8172.0
20°	8439.2	8347.8	8354.8	8390.0	8390.0	8474.4	8523.6	8481.4	8453.3	8446.3	8460.3
22.5°	8713.5	8608.0	8615.0	8762.7	8812.0	8783.8	8748.7	8819.0	8833.1	8776.8	8840.1
25°	8917.4	9030.0	9065.1	9135.5	9030.0	9107.3	9079.2	9212.8	9297.2	9184.7	9262.1
27.5°	9451.9	9402.7	9494.1	9487.1	9571.5	9494.1	9543.4	9585.6	9620.7	9627.8	9592.6
30°	9930.2	9951.3	9859.8	10106.0	9909.1	10035.6	10120.0	10141.1	10183.3	10183.3	10077.8
32.5°	10436.5	10394.3	10542.0	10485.7	10450.6	10549.0	10457.6	10745.9	10577.2	10675.6	10556.1
35°	11006.2	11006.2	11062.4	11217.1	11006.2	10942.9	11111.6	11231.2	11231.2	11055.4	11097.6
37.5°	11646.1	11589.9	11660.2	11857.1	11695.4	11484.4	11793.8	11843.0	11807.9	11758.7	11674.3
40°	12096.2	12082.2	12222.8	12483.0	12250.9	12208.7	12265.0	12398.6	12440.8	12490.1	12377.5
42.5°	12855.8	12919.0	13326.9	13263.7	13073.8	12926.1	12912.0	13411.3	13291.8	13165.2	13101.9
45°	13981.0	13924.7	14135.7	14142.7	13896.6	13573.1	13643.4	14100.5	14304.5	14023.2	14128.7
47.5°	14874.1	14902.3	15050.0	15352.4	14782.7	14445.1	14705.4	15443.8	15380.5	15275.0	15373.5
50°	16069.7	16196.3	16660.4	16554.9	16048.6	15633.7	16203.3	16899.6	16976.9	16590.1	16519.8
52.5°	17722.4	17919.3	18172.5	18256.9	17771.6	17623.9	17659.1	18524.1	18334.2	17961.5	17722.4
55°	19171.1	19262.5	19726.7	20422.9	20387.8	19677.5	20085.4	20408.9	19635.3	18868.7	18932.0
57.5°	19790.0	19832.2	21126.2	22518.7	23348.5	23510.3	23046.1	21956.1	20113.5	18636.6	18545.2
60°	18249.8	18650.7	20211.9	23355.6	27146.2	29016.9	25929.5	22131.9	18995.3	17202.0	17068.3
62.5°	14585.8	14606.9	16927.7	21695.8	29509.2	34410.9	27033.7	20479.2	16013.4	13981.0	13446.5
64°	10387.3	10584.2	13249.6	19206.3	29016.9	36605.1	26900.0	18320.2	13200.4	10317.0	9944.2
65°	7454.7	7728.9	10302.9	16674.5	27863.5	36344.9	26499.2	16463.5	10675.6	7876.6	7496.8
67.5°	2742.7	2855.3	4043.8	8340.8	20008.0	30972.0	20999.6	9051.1	4690.8	3340.5	3003.0
70°	1272.9	1279.9	1498.0	2756.8	8748.7	20711.3	10021.6	3396.8	1765.2	1399.5	1301.0
72.5°	935.3	956.4	1047.9	1272.9	2574.0	8769.8	3291.3	1392.5	1033.8	914.2	893.2
75°	759.5	773.6	801.7	921.3	1188.5	2348.9	1336.2	963.5	822.8	738.4	710.3
77.5°	583.7	583.7	647.0	703.3	787.7	1097.1	886.1	766.6	668.1	583.7	562.6
80°	422.0	429.0	506.4	548.5	534.5	724.4	640.0	632.9	548.5	457.1	422.0
82.5°	246.1	267.2	365.7	393.8	379.8	429.0	464.2	492.3	429.0	316.5	288.3
85°	140.7	147.7	211.0	218.0	218.0	203.9	267.2	295.4	288.3	196.9	175.8
87.5°	42.2	42.2	56.3	56.3	63.3	70.3	105.5	126.6	140.7	98.5	91.4
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4
2.5°	7292.9	7187.4	7194.4	7222.6	7131.1	7166.3	7271.8	7194.4	7173.3	7131.1	7110.0
5°	7257.7	7370.3	7328.1	7342.1	7321.0	7222.6	7208.5	7271.8	7307.0	7243.7	7370.3
7.5°	7503.9	7454.7	7398.4	7419.5	7370.3	7454.7	7510.9	7384.3	7447.6	7412.5	7342.1
10°	7644.5	7553.1	7595.3	7581.2	7546.1	7630.5	7574.2	7560.1	7503.9	7426.5	7539.0
12.5°	7693.8	7799.3	7869.6	7750.0	7771.1	7728.9	7693.8	7693.8	7630.5	7609.4	7630.5
15°	7911.8	8003.2	7975.1	8066.5	7946.9	7989.1	8031.3	7925.8	7982.1	7827.4	7946.9
17.5°	8312.6	8235.3	8333.7	8214.2	8256.4	8340.8	8207.1	8207.1	8249.3	8165.0	8059.5
20°	8565.8	8530.7	8495.5	8502.5	8432.2	8509.6	8467.4	8446.3	8383.0	8411.1	8467.4
22.5°	8804.9	8755.7	8769.8	8790.9	8840.1	8804.9	8783.8	8804.9	8650.2	8790.9	8593.9
25°	9100.3	9233.9	9191.7	9283.1	9142.5	9233.9	9226.9	9093.3	9177.7	9121.4	9079.2
27.5°	9592.6	9522.3	9585.6	9473.0	9571.5	9578.5	9494.1	9719.2	9620.7	9606.7	9578.5
30°	10225.5	10176.3	10134.1	10070.8	10148.2	10084.9	10155.2	10176.3	10084.9	10014.5	9880.9
32.5°	10584.2	10717.8	10767.0	10612.3	10619.4	10654.5	10591.2	10527.9	10584.2	10605.3	10584.2
35°	11090.6	11217.1	11245.3	11125.7	11062.4	11238.2	11111.6	11322.6	11139.8	11146.8	10956.9
37.5°	11681.3	11716.5	11955.6	11821.9	11765.7	11681.3	11913.4	11885.2	11927.4	11589.9	11758.7
40°	12349.4	12476.0	12609.6	12272.0	12265.0	12342.4	12328.3	12490.1	12412.7	12363.5	12243.9
42.5°	13080.8	13348.0	13369.1	13144.1	13003.4	12989.4	13059.7	13418.4	13425.4	13101.9	12961.2
45°	14051.3	14346.7	14269.3	13833.3	13678.6	13657.5	14002.1	14156.8	14290.4	14163.8	14044.3
47.5°	15260.9	15457.8	15401.6	15000.7	14501.4	14642.1	14979.6	15464.9	15324.2	15155.4	15014.8
50°	16554.9	16787.0	16667.5	16266.6	15788.4	15788.4	16203.3	16822.2	16780.0	16449.5	16322.9
52.5°	17989.6	18327.2	18601.5	18031.8	17631.0	17694.2	18348.3	18573.3	18467.8	18235.8	18130.3
55°	19058.6	19705.6	20268.2	20296.3	20317.4	20310.4	20479.2	20704.2	19951.7	19579.0	19199.2
57.5°	18798.4	20022.1	21949.0	23257.1	23643.9	23847.8	23791.6	22750.7	20971.5	19747.8	19874.4
60°	16941.7	18939.0	22047.5	26246.0	29059.1	28777.8	27751.0	23636.9	20408.9	18341.3	18081.0
62.5°	13516.8	15922.0	20394.8	27089.9	34839.9	34755.5	29382.6	21590.4	17005.0	14388.9	14227.1
64°	10183.3	12715.1	18193.6	26871.9	36865.4	36949.7	28967.6	19072.7	13305.8	10183.3	9937.2
65°	7792.2	10141.1	16034.5	26421.8	36429.3	36478.6	27814.3	16470.6	10113.0	7229.6	6962.4
67.5°	3101.4	4318.1	8699.4	20036.1	31281.4	31147.8	19846.2	7968.0	3868.0	2517.7	2468.5
70°	1322.1	1645.6	3052.2	9494.1	20943.3	20556.5	8544.7	2588.0	1434.7	1202.6	1195.6
72.5°	907.2	1005.7	1308.1	2932.6	8706.5	8502.5	2433.3	1202.6	977.5	900.2	900.2
75°	731.4	801.7	949.4	1230.7	2306.7	2222.3	1146.3	886.1	780.6	724.4	717.3
77.5°	569.6	640.0	745.5	851.0	1054.9	1047.9	766.6	668.1	604.8	562.6	548.5
80°	450.1	520.4	590.7	604.8	689.2	675.1	520.4	527.5	492.3	407.9	400.9
82.5°	309.4	422.0	471.2	429.0	407.9	407.9	372.7	372.7	344.6	253.2	232.1
85°	189.9	281.3	295.4	253.2	189.9	189.9	203.9	196.9	182.8	133.6	126.6
87.5°	98.5	133.6	119.6	98.5	63.3	63.3	56.3	42.2	42.2	35.2	35.2
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)