

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: P977498

Luminaire Tested: **EPH-VN-08-E-735-U-T1**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977498
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-T1
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T1
distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67601.6 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

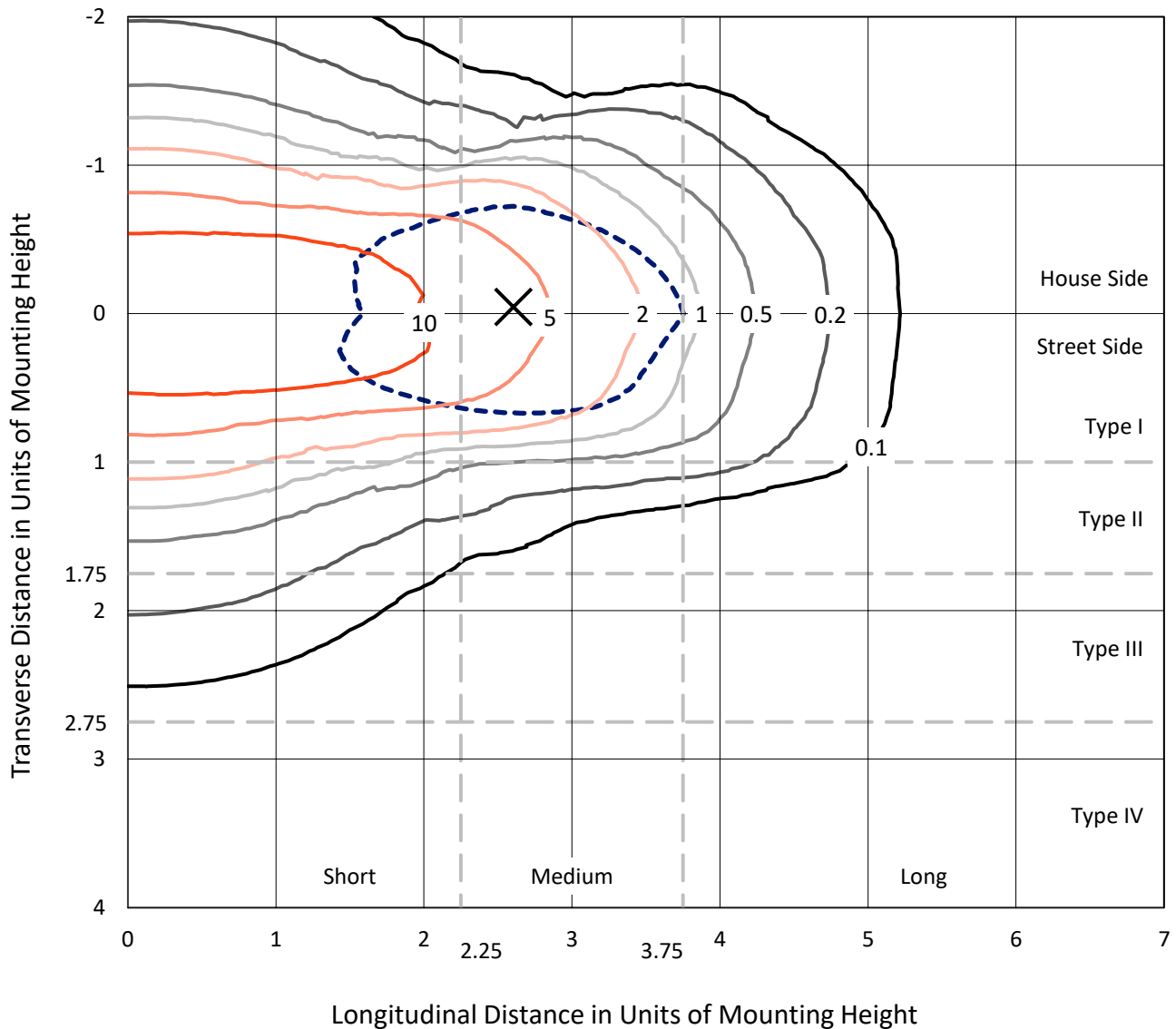
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

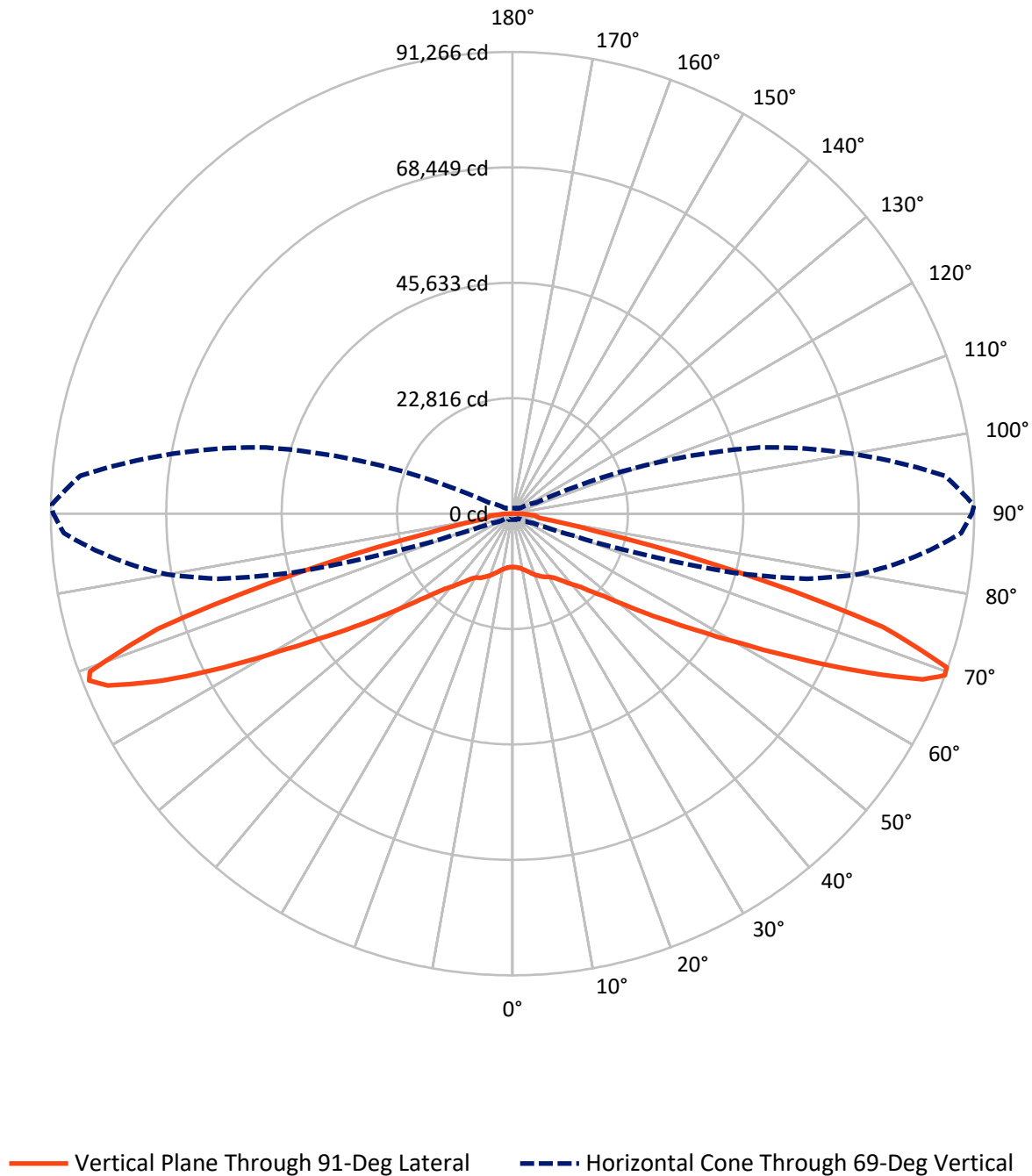
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
Type I - Short - N/A

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Luminous Intensity Polar Plot



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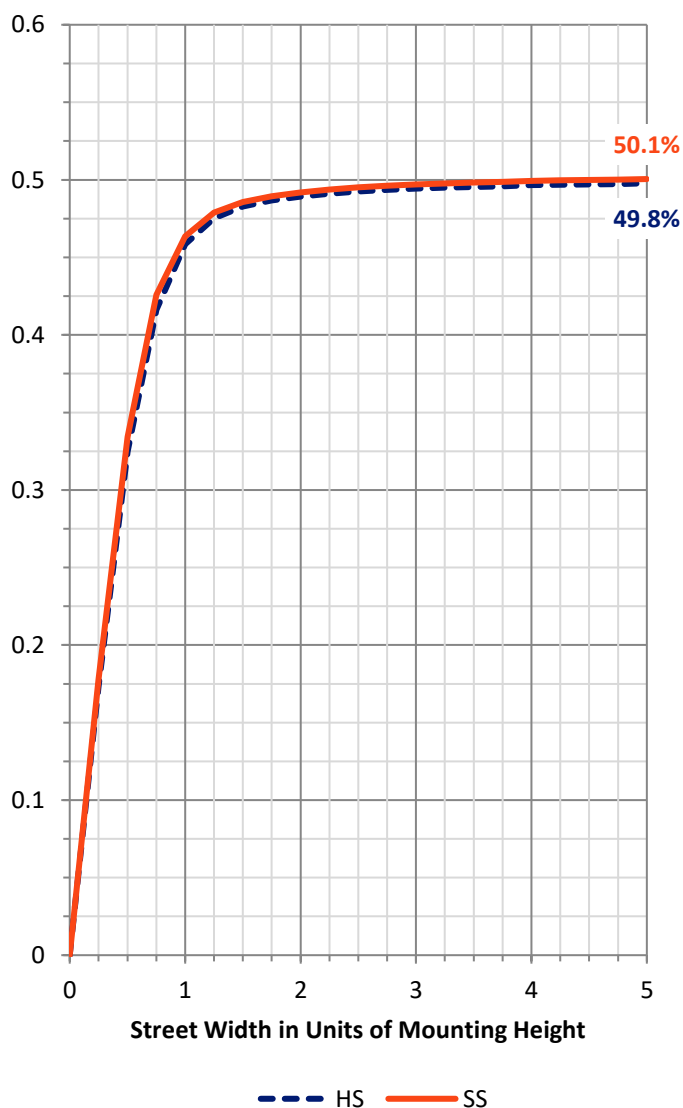
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33891.8	0.0	33891.8
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	33709.8	0.0	33709.8
	% Fixture	49.9	0.0	49.9
Total	Lumens	67601.6	0.0	67601.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1065.0	1.6
10°-20°	3487.0	5.2
20°-30°	5979.8	8.8
30°-40°	8260.7	12.2
40°-50°	10621.0	15.7
50°-60°	13214.6	19.5
60°-70°	16207.4	24.0
70°-80°	7995.0	11.8
80°-90°	771.2	1.1
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°	67601.6	100.0
0°-180°	67601.6	100.0

Coefficient of Utilization



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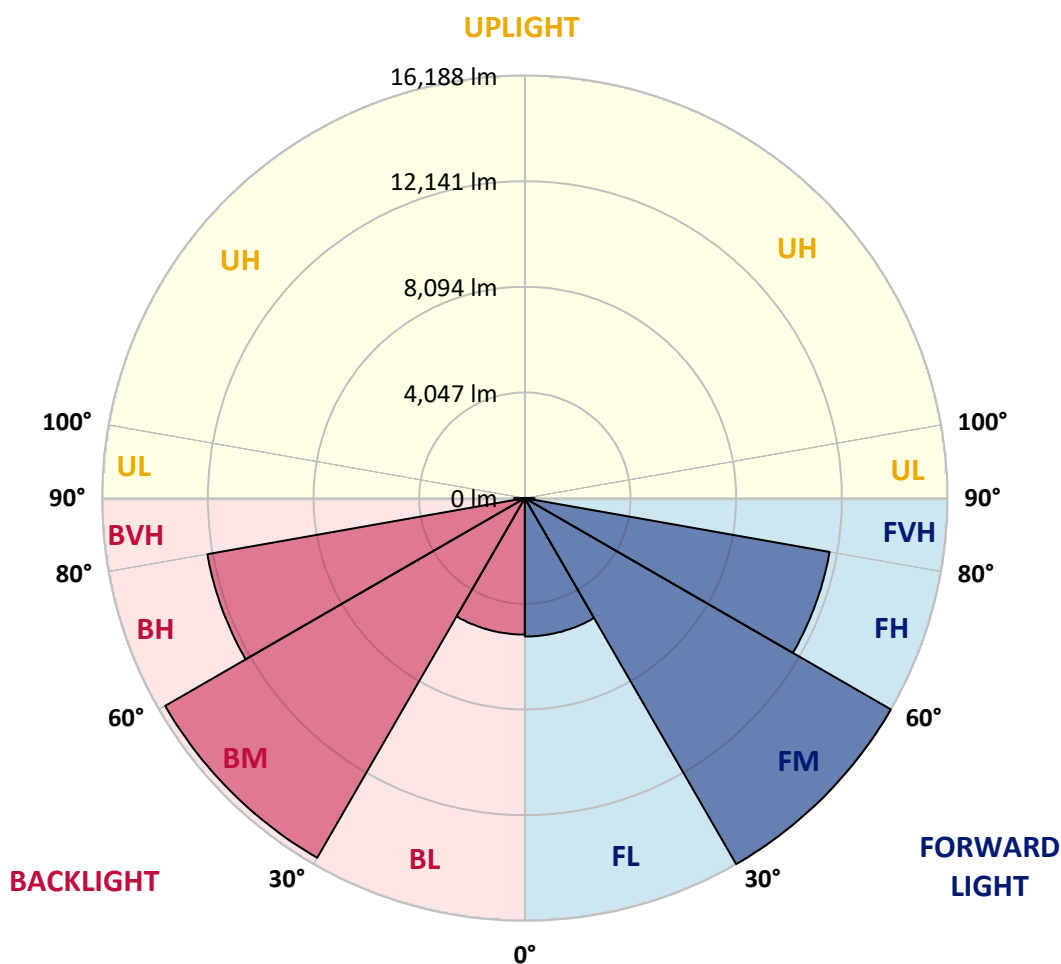
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5301.2	7.8			
FM	(30°-60°)	16188.4	23.9			
FH	(60°-80°)	11854.6	17.5			G4/12000
FVH	(80°-90°)	365.7	0.5			G3/500
BL	(0°-30°)	5230.6	7.7	B5		
BM	(30°-60°)	15907.9	23.5	B5		
BH	(60°-80°)	12347.8	18.3	B5		G5
BVH	(80°-90°)	405.5	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67.5°	70°	72.5°
0°	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8
2.5°	10698.5	10792.3	10713.0	10749.0	10792.3	10770.7	10756.3	10655.3	10691.3	10648.0	10655.3
5°	11073.7	11138.6	11088.1	11080.9	11037.6	11030.4	10987.1	10828.4	10900.5	10799.5	10842.8
7.5°	11398.3	11463.2	11398.3	11420.0	11434.4	11391.1	11355.0	11181.9	11196.3	11131.4	11080.9
10°	11636.4	11737.4	11665.2	11809.5	11809.5	11867.2	11816.7	11564.2	11571.4	11492.1	11520.9
12.5°	11795.1	11917.7	11888.9	12126.9	12249.6	12278.4	12336.1	12119.7	12105.3	11953.8	11946.6
15°	11679.7	11701.3	11852.8	12220.7	12646.4	12848.3	12949.3	12696.9	12711.3	12538.1	12545.4
17.5°	11311.7	11383.9	11528.2	12170.2	12711.3	13310.1	13512.0	13367.8	13338.9	13144.1	13093.6
20°	10907.7	10922.2	11160.2	11896.1	12732.9	13591.4	14190.2	14074.7	14067.5	13944.9	13807.8
22.5°	10402.8	10410.0	10741.8	11557.0	12668.0	13721.3	14796.2	14947.7	14846.7	14731.2	14558.1
25°	9775.1	9854.5	10244.1	11160.2	12444.4	13858.3	15149.7	15647.4	15611.4	15503.1	15330.0
27.5°	9183.6	9241.3	9666.9	10597.5	11968.2	13656.3	15661.9	16534.8	16441.0	16267.8	16195.7
30°	8649.7	8743.5	9183.6	10020.4	11376.7	13403.8	16000.9	17263.4	17371.6	17176.8	16989.3
32.5°	8072.6	8188.0	8649.7	9515.4	10828.4	13165.8	16289.5	18121.9	18388.8	18165.2	18150.7
35°	7495.5	7582.0	8043.7	8974.4	10431.6	12639.1	16347.2	19232.8	19564.7	19442.1	19348.3
37.5°	6990.5	7069.8	7524.3	8411.7	9897.8	12249.6	16217.3	20156.3	20755.0	21086.9	20993.1
40°	6427.8	6528.8	6976.1	7870.6	9190.8	11672.4	16058.6	21187.9	22046.4	22486.4	22587.4
42.5°	5800.2	5937.2	6370.1	7293.5	8642.5	10958.2	15582.5	21880.4	23215.0	23994.2	24665.1
45°	5136.5	5237.5	5706.4	6557.6	7993.2	10128.6	14911.6	22724.5	24470.3	25913.1	26980.8
47.5°	4335.7	4400.6	4876.7	5771.3	7084.3	9270.1	14060.3	23373.7	25877.0	27687.8	29072.9
50°	3462.8	3527.7	3910.1	4811.8	6088.7	8202.5	12754.6	23647.9	26865.4	29404.8	31677.2
52.5°	2705.3	2755.8	3058.8	3736.9	4948.9	6983.3	11225.2	23583.0	27493.0	31186.6	34259.9
55°	2106.5	2149.8	2366.2	2878.4	3794.6	5540.4	9623.6	22392.6	27687.8	32434.7	36864.2
57.5°	1810.7	1832.4	1933.4	2229.2	2907.3	4198.6	7589.3	20300.5	26728.3	33278.7	39143.8
60°	1594.3	1601.5	1680.9	1882.9	2250.8	3123.7	5547.7	16960.4	24340.4	32744.9	40961.8
62.5°	1486.1	1493.3	1536.6	1673.7	1861.2	2359.0	3931.7	13028.7	20105.8	30544.6	41740.9
65°	1392.3	1399.5	1435.6	1522.2	1601.5	1890.1	2892.9	8592.0	14486.0	24888.7	39418.0
67.5°	1269.7	1284.1	1320.2	1392.3	1457.3	1572.7	2200.3	5540.4	9118.6	17191.2	32694.4
69°	1190.3	1204.8	1240.8	1298.5	1356.3	1464.5	1904.5	4422.3	6882.3	12639.1	25905.9
70°	1132.6	1147.0	1190.3	1248.0	1298.5	1399.5	1753.0	3924.5	5879.5	10287.3	21440.4
72.5°	988.3	1002.8	1031.6	1089.3	1147.0	1219.2	1414.0	2806.3	3996.6	6319.6	12076.4
75°	844.1	851.3	872.9	930.6	988.3	1046.0	1190.3	1983.9	2654.8	3881.2	6752.4
77.5°	656.5	663.7	692.6	757.5	793.6	872.9	1010.0	1377.9	1738.6	2258.0	3455.6
80°	476.1	497.8	533.8	591.6	613.2	656.5	779.1	988.3	1147.0	1385.1	1861.2
82.5°	324.6	339.1	375.1	425.6	440.1	440.1	555.5	728.6	815.2	901.8	1074.9
85°	187.6	194.8	187.6	216.4	252.5	259.7	360.7	440.1	505.0	584.3	649.3
87.5°	57.7	57.7	57.7	72.1	86.6	93.8	158.7	202.0	252.5	303.0	353.5
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):

	75°	77.5°	80°	82.5°	85°	87.5°	90°	91°	95°	105°	115°
0°	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8
2.5°	10626.4	10713.0	10612.0	10604.8	10597.5	10547.0	10583.1	10575.9	10655.3	10633.6	10727.4
5°	10777.9	10777.9	10720.2	10763.5	10749.0	10583.1	10734.6	10734.6	10814.0	10799.5	10922.2
7.5°	10994.3	11008.7	10979.9	10958.2	10929.4	10806.8	10900.5	10886.1	10951.0	10951.0	11131.4
10°	11412.7	11398.3	11268.5	11268.5	11239.6	11109.7	11167.5	11210.7	11333.4	11362.2	11535.4
12.5°	11867.2	11773.4	11787.9	11737.4	11643.6	11420.0	11506.5	11513.7	11636.4	11780.7	12105.3
15°	12365.0	12264.0	12220.7	12177.4	12083.7	11874.4	11997.1	11924.9	12011.5	12155.8	12530.9
17.5°	13035.9	12906.1	12754.6	12639.1	12502.1	12336.1	12393.9	12451.6	12509.3	12805.1	13136.9
20°	13779.0	13569.8	13396.6	13209.1	13093.6	12884.4	12956.6	12963.8	13028.7	13411.0	13793.4
22.5°	14370.5	14190.2	13995.4	13858.3	13620.3	13411.0	13331.7	13346.1	13461.5	13923.3	14471.5
25°	15142.4	14817.8	14623.0	14399.4	14190.2	13829.5	13793.4	13807.8	13995.4	14644.7	15178.5
27.5°	15813.4	15546.4	15221.8	14882.7	14579.7	14291.2	14247.9	14197.4	14421.0	15279.5	15972.1
30°	16686.3	16289.5	15770.1	15445.4	14940.4	14536.5	14478.7	14529.2	14659.1	15856.6	16845.0
32.5°	17624.1	17205.7	16657.4	16239.0	15625.8	15156.9	15091.9	15142.4	15380.5	16917.1	17588.0
35°	19002.0	18547.5	17883.8	17241.7	16657.4	16145.2	16109.1	16029.8	16347.2	18165.2	18684.6
37.5°	20654.0	20048.0	19420.4	18706.2	18085.8	17364.4	17155.2	17220.1	17479.8	19687.3	19925.4
40°	22515.3	21938.1	21151.8	20336.6	19579.1	18814.4	18511.4	18468.1	18922.6	21627.9	21000.3
42.5°	24665.1	24268.3	23121.3	22154.6	21159.0	20199.5	19838.8	19860.5	20278.9	23727.2	21909.3
45°	27175.6	26879.8	25862.6	24650.6	23482.0	22262.8	22024.7	22039.1	22601.8	26230.5	23020.3
47.5°	30140.6	30328.2	29368.7	28091.8	26649.0	25177.3	24600.1	24455.9	25083.5	29188.3	24023.0
50°	33141.7	34324.8	33603.4	32384.2	30681.7	28943.1	28200.0	27940.3	28842.1	32413.0	24672.3
52.5°	36654.9	38559.5	38783.1	37845.3	35933.5	33502.4	32680.0	32413.0	33560.1	36178.8	24758.9
55°	40298.1	43205.4	44294.7	44424.6	42144.9	39475.7	37924.6	37614.4	39410.7	40290.9	24037.4
57.5°	43977.3	48370.7	50599.8	51920.0	50008.3	46538.3	44330.8	43998.9	47180.3	44092.7	22212.3
60°	47757.5	53716.3	57294.5	60627.5	59523.7	55671.4	52259.1	52273.5	56630.8	48320.2	18814.4
62.5°	50520.5	58016.0	63715.1	69089.6	70085.2	67401.5	63080.3	62640.2	67250.0	52093.2	14615.8
65°	51992.2	62077.5	69075.2	75452.5	78922.5	78792.6	75272.1	74882.6	78273.2	54221.3	9818.4
67.5°	49791.9	62229.0	71001.4	77349.8	83712.7	87225.9	86778.7	87449.6	85458.5	53860.6	6427.8
69°	45102.7	59552.6	69284.4	76383.1	82810.9	88748.1	90775.3	91265.8	85783.1	50477.2	5122.0
70°	39951.8	56226.9	66420.4	73273.8	79175.0	86555.0	90897.9	91049.4	82911.9	46466.1	4357.3
72.5°	24932.0	42144.9	52172.5	58722.9	62380.5	69371.0	76686.1	76563.5	65590.8	31172.2	2928.9
75°	13093.6	24282.7	32456.3	35782.0	37830.8	41423.5	46372.4	45752.0	39425.2	16376.1	2070.5
77.5°	5829.0	10316.2	13151.3	15034.2	15560.9	16606.9	17097.5	16693.5	15849.4	7134.8	1486.1
80°	2827.9	4270.8	5554.9	5872.3	5497.2	5237.5	5360.1	5302.4	5800.2	3426.7	1074.9
82.5°	1406.8	1962.2	2214.7	2654.8	3910.1	4804.6	4941.7	4884.0	4379.0	1810.7	771.9
85°	750.3	901.8	1038.8	1904.5	3498.8	4386.2	4516.0	4494.4	4047.1	981.1	461.7
87.5°	418.4	519.4	750.3	1522.2	2113.7	2236.4	2359.0	2286.9	2351.8	476.1	202.0
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):

	125°	135°	145°	155°	165°	175°	180°
0°	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8	10604.8
2.5°	10669.7	10727.4	10756.3	10648.0	10713.0	10655.3	10669.7
5°	10850.0	10987.1	10965.5	10965.5	10979.9	10893.3	10929.4
7.5°	11210.7	11261.2	11376.7	11333.4	11290.1	11203.5	11218.0
10°	11701.3	11701.3	11773.4	11701.3	11564.2	11506.5	11492.1
12.5°	12177.4	12105.3	12148.6	11939.4	11780.7	11665.2	11722.9
15°	12603.1	12588.6	12429.9	12163.0	11773.4	11564.2	11578.7
17.5°	13237.9	13108.1	12689.6	11997.1	11513.7	11311.7	11210.7
20°	13865.5	13504.8	12660.8	11730.2	11088.1	10756.3	10763.5
22.5°	14413.8	13656.3	12559.8	11391.1	10698.5	10251.3	10244.1
25°	14940.4	13569.8	12357.8	11080.9	10265.7	9832.8	9775.1
27.5°	15351.6	13490.4	11867.2	10583.1	9674.1	9320.6	9284.6
30°	15611.4	13317.3	11427.2	9998.8	9125.9	8779.6	8765.2
32.5°	15907.1	13050.3	10850.0	9479.4	8642.5	8267.4	8245.7
35°	16181.3	12646.4	10381.1	8988.8	8137.5	7697.5	7632.5
37.5°	16239.0	12199.1	9796.8	8404.5	7509.9	7084.3	7077.1
40°	16246.2	11658.0	9176.4	7820.1	6896.7	6463.9	6435.0
42.5°	15957.6	11037.6	8555.9	7127.6	6261.9	5749.7	5713.6
45°	15293.9	10294.5	7762.4	6362.9	5562.1	5086.0	5028.2
47.5°	14406.6	9363.9	6961.6	5583.7	4768.5	4335.7	4299.6
50°	13209.1	8317.9	5994.9	4739.7	3967.8	3614.3	3527.7
52.5°	11722.9	7120.3	4985.0	3859.6	3231.9	2921.7	2871.2
55°	9948.3	5829.0	3982.2	3080.4	2510.5	2272.4	2229.2
57.5°	7971.6	4487.2	3066.0	2380.7	2012.7	1846.8	1796.3
60°	5958.9	3383.4	2351.8	1890.1	1644.8	1529.4	1507.8
62.5°	4285.2	2546.6	1846.8	1579.9	1442.8	1385.1	1370.7
65°	3152.6	1962.2	1536.6	1428.4	1327.4	1276.9	1255.3
67.5°	2344.6	1572.7	1363.5	1298.5	1226.4	1175.9	1161.5
69°	1976.7	1421.2	1276.9	1212.0	1147.0	1103.8	1082.1
70°	1789.1	1341.8	1233.6	1168.7	1096.5	1060.5	1038.8
72.5°	1406.8	1161.5	1096.5	1024.4	973.9	930.6	923.4
75°	1161.5	995.5	945.0	887.3	836.8	793.6	793.6
77.5°	973.9	822.4	779.1	721.4	670.9	627.6	620.4
80°	757.5	627.6	598.8	577.1	519.4	454.5	447.3
82.5°	541.1	425.6	418.4	404.0	353.5	317.4	303.0
85°	339.1	245.3	223.6	194.8	173.1	173.1	173.1
87.5°	129.9	72.1	72.1	57.7	43.3	43.3	43.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)