

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: P977500

Luminaire Tested: **EPH-VN-08-E-750-U-T1**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977500
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-T1
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T1 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70110.2 lumens
Efficiency: N/A
Efficacy: 111.9 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

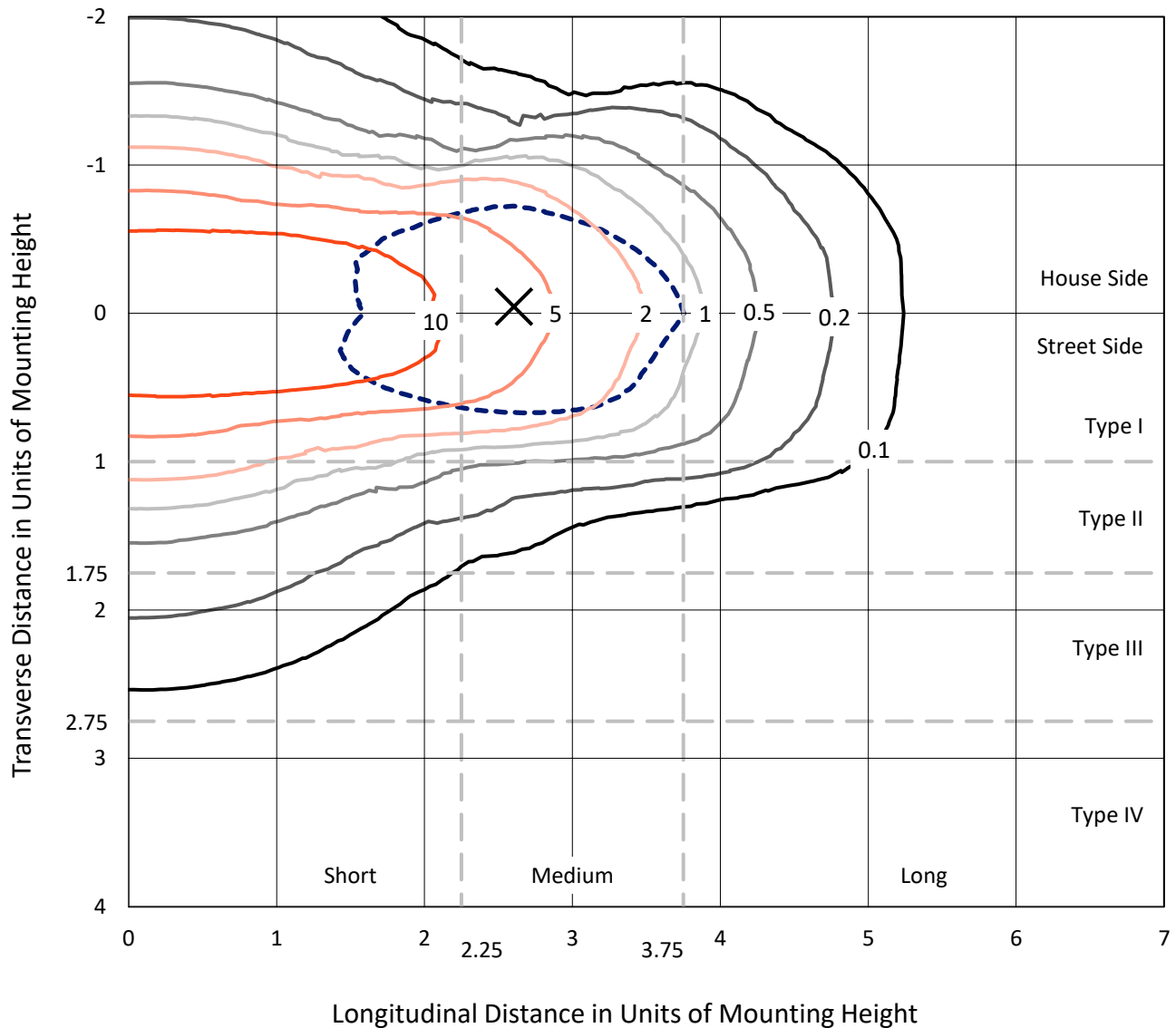
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

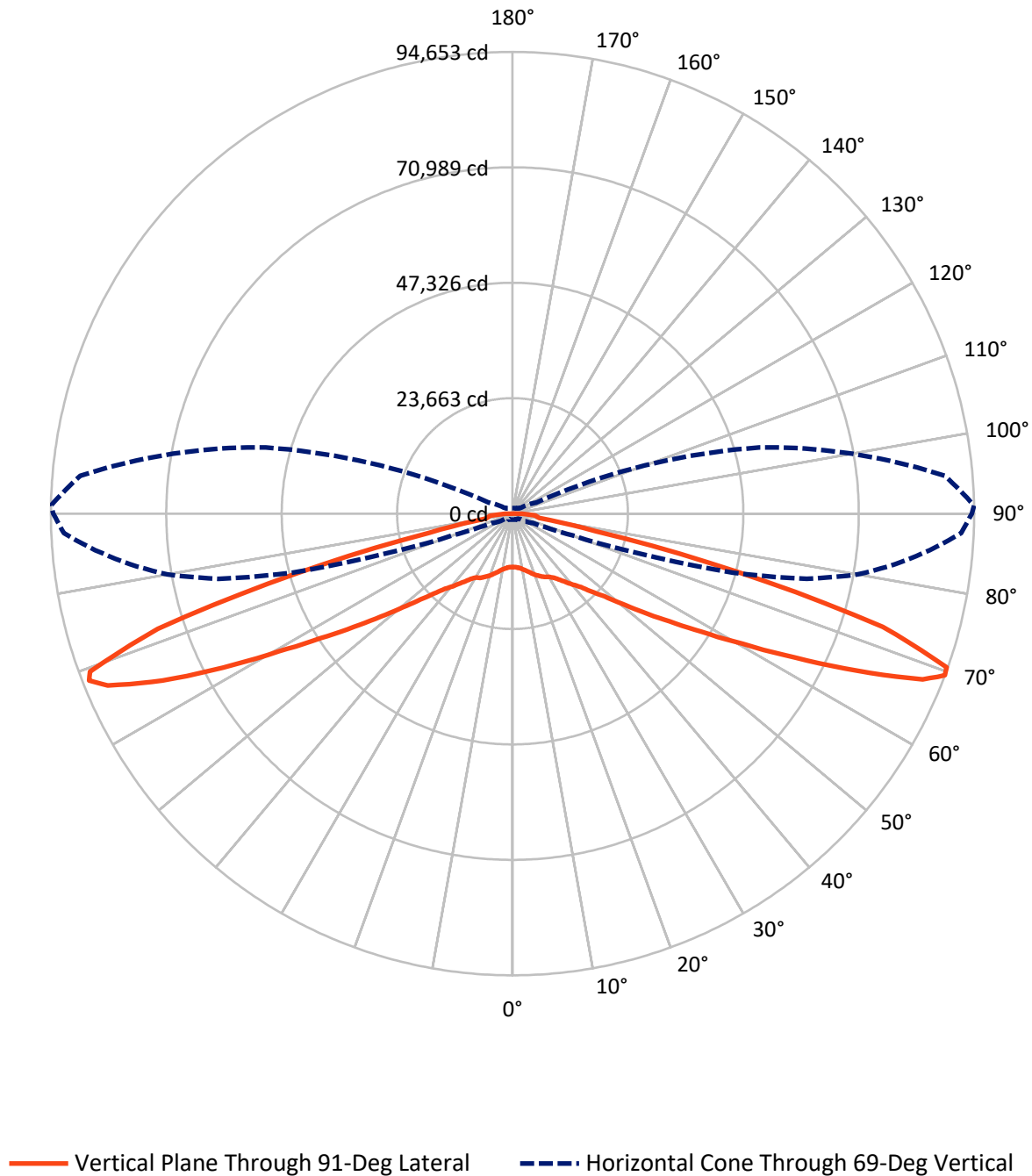


Based on 25 foot mounting height. Maximum calculated value = 19.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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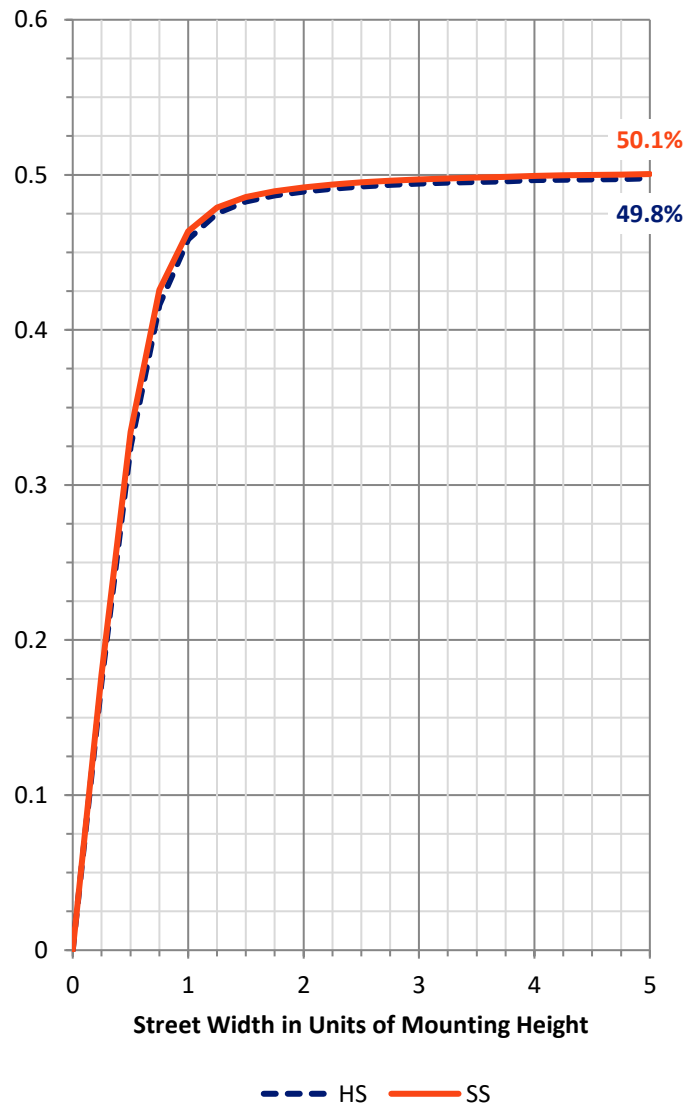
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35149.5	0.0	35149.5
	% Fixture	50.1	0.0	50.1
Street Side	Lumens	34960.7	0.0	34960.7
	% Fixture	49.9	0.0	49.9
Total	Lumens	70110.2	0.0	70110.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1104.5	1.6
10°-20°	3616.4	5.2
20°-30°	6201.7	8.8
30°-40°	8567.2	12.2
40°-50°	11015.1	15.7
50°-60°	13705.0	19.5
60°-70°	16808.8	24.0
70°-80°	8291.7	11.8
80°-90°	799.9	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°	70110.2	100.0
0°-180°	70110.2	100.0

Coefficient of Utilization



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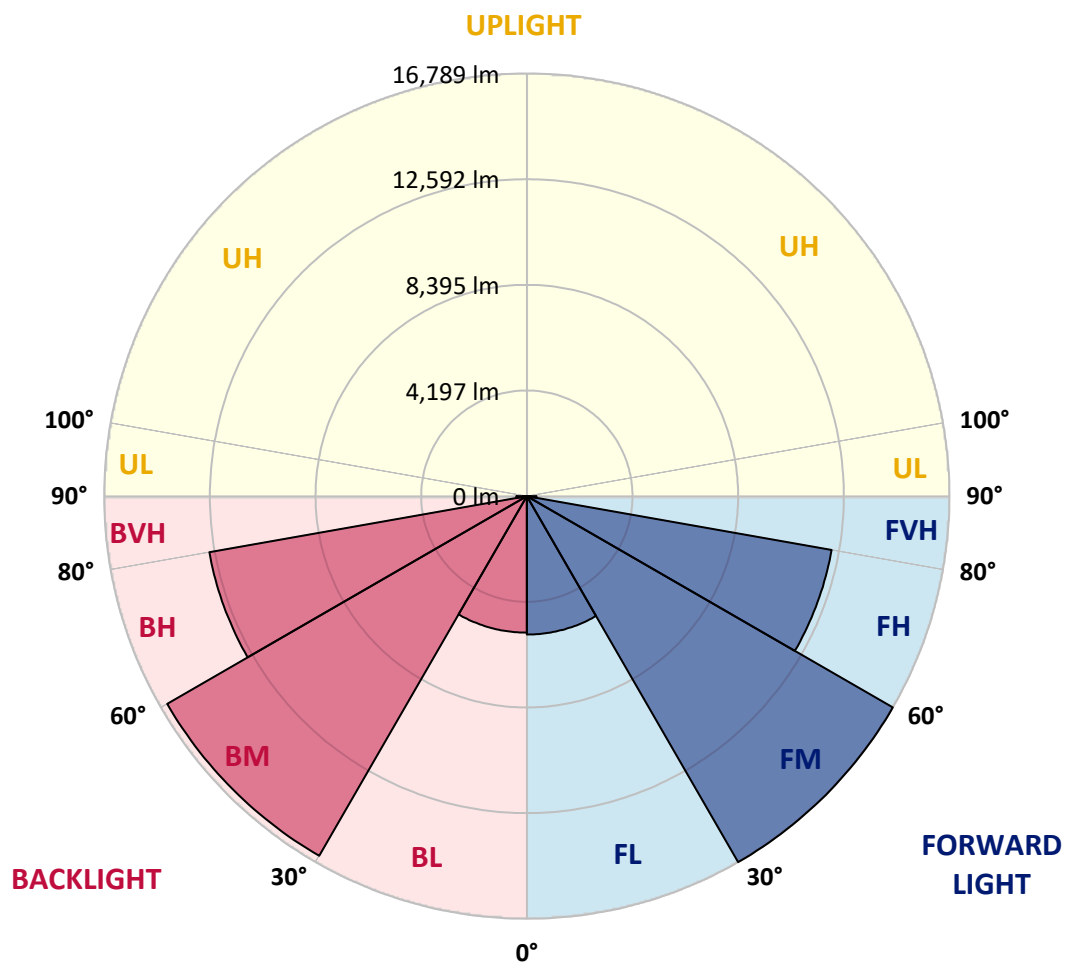
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5497.9	7.8			
FM	(30°-60°)	16789.1	23.9			
FH	(60°-80°)	12294.5	17.5			G5
FVH	(80°-90°)	379.3	0.5			G3/500
BL	(0°-30°)	5424.7	7.7	B5		
BM	(30°-60°)	16498.2	23.5	B5		
BH	(60°-80°)	12806.0	18.3	B5		G5
BVH	(80°-90°)	420.6	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3
2.5°	11095.5	11192.8	11110.5	11147.9	11192.8	11170.4	11155.4	11050.7	11088.1	11043.2	11050.7
5°	11484.6	11551.9	11499.6	11492.1	11447.2	11439.7	11394.8	11230.2	11305.0	11200.3	11245.2
7.5°	11821.3	11888.6	11821.3	11843.7	11858.7	11813.8	11776.4	11596.8	11611.8	11544.5	11492.1
10°	12068.2	12172.9	12098.1	12247.7	12247.7	12307.6	12255.2	11993.4	12000.8	11918.5	11948.5
12.5°	12232.8	12360.0	12330.0	12576.9	12704.1	12734.1	12793.9	12569.5	12554.5	12397.4	12389.9
15°	12113.1	12135.5	12292.6	12674.2	13115.6	13325.1	13429.9	13168.0	13183.0	13003.4	13010.9
17.5°	11731.5	11806.3	11956.0	12621.8	13183.0	13804.0	14013.5	13863.8	13833.9	13631.9	13579.5
20°	11312.5	11327.5	11574.4	12337.5	13205.4	14095.8	14716.7	14597.0	14589.6	14462.4	14320.2
22.5°	10788.8	10796.3	11140.4	11985.9	13138.1	14230.4	15345.2	15502.3	15397.6	15277.9	15098.3
25°	10137.9	10220.2	10624.2	11574.4	12906.1	14372.6	15711.8	16228.1	16190.7	16078.4	15898.9
27.5°	9524.4	9584.2	10025.6	10990.8	12412.3	14163.1	16243.0	17148.3	17051.1	16871.5	16796.7
30°	8970.7	9068.0	9524.4	10392.3	11798.8	13901.2	16594.7	17904.0	18016.2	17814.2	17619.7
32.5°	8372.2	8491.9	8970.7	9868.5	11230.2	13654.3	16894.0	18794.3	19071.2	18839.2	18824.3
35°	7773.6	7863.4	8342.2	9307.4	10818.7	13108.2	16953.8	19946.5	20290.7	20163.5	20066.3
37.5°	7249.9	7332.2	7803.5	8723.8	10265.1	12704.1	16819.1	20904.2	21525.2	21869.4	21772.1
40°	6666.3	6771.1	7234.9	8162.7	9531.8	12105.6	16654.5	21974.1	22864.5	23320.8	23425.6
42.5°	6015.4	6157.5	6606.5	7564.1	8963.2	11364.9	16160.7	22692.4	24076.5	24884.5	25580.4
45°	5327.1	5431.8	5918.1	6801.0	8289.9	10504.5	15464.9	23567.7	25378.3	26874.7	27982.0
47.5°	4496.6	4563.9	5057.7	5985.5	7347.2	9614.1	14582.1	24241.1	26837.3	28715.2	30151.8
50°	3591.3	3658.6	4055.1	4990.4	6314.7	8506.8	13227.9	24525.4	27862.3	30495.9	32852.7
52.5°	2805.7	2858.1	3172.3	3875.6	5132.5	7242.4	11641.7	24458.1	28513.2	32343.9	35531.2
55°	2184.7	2229.6	2454.0	2985.2	3935.4	5746.0	9980.8	23223.6	28715.2	33638.3	38232.1
57.5°	1877.9	1900.4	2005.1	2311.9	3015.2	4354.4	7870.9	21053.9	27720.2	34513.7	40596.4
60°	1653.5	1661.0	1743.3	1952.8	2334.3	3239.6	5753.5	17589.8	25243.7	33960.0	42481.8
62.5°	1541.3	1548.7	1593.6	1735.8	1930.3	2446.6	4077.6	13512.2	20851.8	31678.0	43289.8
65°	1444.0	1451.5	1488.9	1578.7	1661.0	1960.2	3000.2	8910.9	15023.5	25812.3	40880.7
67.5°	1316.8	1331.8	1369.2	1444.0	1511.3	1631.0	2282.0	5746.0	9457.0	17829.2	33907.6
69°	1234.5	1249.5	1286.9	1346.7	1406.6	1518.8	1975.2	4586.4	7137.7	13108.2	26867.2
70°	1174.6	1189.6	1234.5	1294.4	1346.7	1451.5	1818.1	4070.1	6097.7	10669.1	22236.0
72.5°	1025.0	1040.0	1069.9	1129.8	1189.6	1264.4	1466.4	2910.4	4144.9	6554.1	12524.6
75°	875.4	882.9	905.3	965.2	1025.0	1084.9	1234.5	2057.5	2753.3	4025.2	7003.0
77.5°	680.8	688.3	718.3	785.6	823.0	905.3	1047.5	1429.0	1803.1	2341.8	3583.8
80°	493.8	516.2	553.7	613.5	636.0	680.8	808.0	1025.0	1189.6	1436.5	1930.3
82.5°	336.7	351.6	389.1	441.4	456.4	456.4	576.1	755.7	845.4	935.2	1114.8
85°	194.5	202.0	194.5	224.5	261.9	269.3	374.1	456.4	523.7	606.0	673.4
87.5°	59.9	59.9	59.9	74.8	89.8	97.3	164.6	209.5	261.9	314.2	366.6
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°	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3
2.5°	11020.7	11110.5	11005.8	10998.3	10990.8	10938.4	10975.8	10968.4	11050.7	11028.2	11125.5
5°	11177.8	11177.8	11118.0	11162.9	11147.9	10975.8	11133.0	11133.0	11215.3	11200.3	11327.5
7.5°	11402.3	11417.3	11387.3	11364.9	11335.0	11207.8	11305.0	11290.1	11357.4	11357.4	11544.5
10°	11836.2	11821.3	11686.6	11686.6	11656.7	11522.0	11581.9	11626.8	11753.9	11783.9	11963.4
12.5°	12307.6	12210.3	12225.3	12172.9	12075.7	11843.7	11933.5	11941.0	12068.2	12217.8	12554.5
15°	12823.8	12719.1	12674.2	12629.3	12532.1	12315.1	12442.3	12367.5	12457.2	12606.9	12995.9
17.5°	13519.7	13385.0	13227.9	13108.2	12966.0	12793.9	12853.8	12913.6	12973.5	13280.2	13624.4
20°	14290.3	14073.3	13893.7	13699.2	13579.5	13362.5	13437.4	13444.8	13512.2	13908.7	14305.2
22.5°	14903.8	14716.7	14514.7	14372.6	14125.7	13908.7	13826.4	13841.4	13961.1	14439.9	15008.5
25°	15704.3	15367.7	15165.7	14933.7	14716.7	14342.7	14305.2	14320.2	14514.7	15188.1	15741.8
27.5°	16400.2	16123.3	15786.6	15435.0	15120.8	14821.5	14776.6	14724.2	14956.2	15846.5	16564.8
30°	17305.5	16894.0	16355.3	16018.6	15494.9	15075.9	15016.0	15068.4	15203.1	16445.1	17470.1
32.5°	18278.1	17844.2	17275.5	16841.6	16205.6	15719.3	15652.0	15704.3	15951.2	17544.9	18240.7
35°	19707.1	19235.8	18547.4	17881.6	17275.5	16744.3	16706.9	16624.6	16953.8	18839.2	19377.9
37.5°	21420.5	20792.0	20141.1	19400.4	18756.9	18008.8	17791.8	17859.1	18128.5	20417.9	20664.8
40°	23350.8	22752.2	21936.7	21091.3	20305.7	19512.6	19198.4	19153.5	19624.8	22430.5	21779.6
42.5°	25580.4	25168.9	23979.2	22976.7	21944.2	20949.1	20575.0	20597.5	21031.4	24607.7	22722.3
45°	28184.0	27877.3	26822.3	25565.4	24353.3	23088.9	22842.0	22857.0	23440.6	27203.9	23874.5
47.5°	31259.1	31453.6	30458.5	29134.2	27637.9	26111.6	25513.0	25363.4	26014.3	30271.5	24914.5
50°	34371.5	35598.5	34850.3	33585.9	31820.2	30017.1	29246.5	28977.1	29912.3	33615.8	25587.8
52.5°	38015.2	39990.4	40222.3	39249.7	37267.0	34745.6	33892.7	33615.8	34805.4	37521.4	25677.6
55°	41793.5	44808.6	45938.4	46073.1	43708.8	40940.5	39332.0	39010.2	40873.2	41786.0	24929.4
57.5°	45609.2	50165.6	52477.5	53846.7	51864.0	48265.3	45975.8	45631.6	48931.1	45728.9	23036.5
60°	49529.7	55709.7	59420.7	62877.3	61732.5	57737.2	54198.3	54213.3	58732.3	50113.3	19512.6
62.5°	52395.2	60168.8	66079.5	71653.4	72685.9	69902.7	65421.1	64964.7	69745.6	54026.3	15158.2
65°	53921.5	64381.1	71638.5	78252.4	81851.2	81716.5	78065.4	77661.3	81177.8	56233.4	10182.8
67.5°	51639.6	64538.2	73636.1	80220.1	86819.1	90462.7	89998.9	90694.7	88629.7	55859.3	6666.3
69°	46776.4	61762.5	71855.4	79217.6	85883.9	92041.4	94143.8	94652.6	88966.4	52350.3	5312.1
70°	41434.3	58313.3	68885.2	75992.9	82113.0	89766.9	94271.0	94428.1	85988.6	48190.4	4519.0
72.5°	25857.2	43708.8	54108.6	60902.1	64695.3	71945.2	79531.8	79404.6	68024.7	32329.0	3037.6
75°	13579.5	25183.8	33660.7	37109.8	39234.7	42960.6	48093.2	47449.7	40888.2	16983.7	2147.3
77.5°	6045.3	10699.0	13639.4	15592.1	16138.3	17223.2	17731.9	17312.9	16437.6	7399.5	1541.3
80°	2932.9	4429.2	5761.0	6090.2	5701.2	5431.8	5559.0	5499.1	6015.4	3553.9	1114.8
82.5°	1459.0	2035.1	2296.9	2753.3	4055.1	4982.9	5125.0	5065.2	4541.5	1877.9	800.6
85°	778.1	935.2	1077.4	1975.2	3628.7	4548.9	4683.6	4661.2	4197.3	1017.5	478.8
87.5°	433.9	538.7	778.1	1578.7	2192.2	2319.4	2446.6	2371.7	2439.1	493.8	209.5
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):

	125°	135°	145°	155°	165°	175°	180°
0°	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3	10998.3
2.5°	11065.6	11125.5	11155.4	11043.2	11110.5	11050.7	11065.6
5°	11252.7	11394.8	11372.4	11372.4	11387.3	11297.6	11335.0
7.5°	11626.8	11679.1	11798.8	11753.9	11709.1	11619.3	11634.2
10°	12135.5	12135.5	12210.3	12135.5	11993.4	11933.5	11918.5
12.5°	12629.3	12554.5	12599.4	12382.4	12217.8	12098.1	12158.0
15°	13070.7	13055.8	12891.2	12614.4	12210.3	11993.4	12008.3
17.5°	13729.1	13594.5	13160.5	12442.3	11941.0	11731.5	11626.8
20°	14380.1	14006.0	13130.6	12165.4	11499.6	11155.4	11162.9
22.5°	14948.7	14163.1	13025.9	11813.8	11095.5	10631.7	10624.2
25°	15494.9	14073.3	12816.4	11492.1	10646.6	10197.7	10137.9
27.5°	15921.3	13991.0	12307.6	10975.8	10033.1	9666.5	9629.1
30°	16190.7	13811.4	11851.2	10369.8	9464.5	9105.4	9090.4
32.5°	16497.4	13534.6	11252.7	9831.1	8963.2	8574.2	8551.7
35°	16781.7	13115.6	10766.3	9322.4	8439.5	7983.1	7915.8
37.5°	16841.6	12651.8	10160.3	8716.3	7788.6	7347.2	7339.7
40°	16849.1	12090.6	9516.9	8110.3	7152.6	6703.7	6673.8
42.5°	16549.8	11447.2	8873.4	7392.0	6494.2	5963.0	5925.6
45°	15861.5	10676.6	8050.4	6599.0	5768.5	5274.7	5214.8
47.5°	14941.2	9711.4	7220.0	5790.9	4945.5	4496.6	4459.2
50°	13699.2	8626.5	6217.4	4915.6	4115.0	3748.4	3658.6
52.5°	12158.0	7384.6	5169.9	4002.8	3351.9	3030.1	2977.8
55°	10317.4	6045.3	4130.0	3194.7	2603.7	2356.8	2311.9
57.5°	8267.4	4653.7	3179.8	2469.0	2087.4	1915.3	1863.0
60°	6180.0	3509.0	2439.1	1960.2	1705.9	1586.1	1563.7
62.5°	4444.2	2641.1	1915.3	1638.5	1496.4	1436.5	1421.5
65°	3269.6	2035.1	1593.6	1481.4	1376.7	1324.3	1301.8
67.5°	2431.6	1631.0	1414.1	1346.7	1271.9	1219.5	1204.6
69°	2050.0	1473.9	1324.3	1256.9	1189.6	1144.7	1122.3
70°	1855.5	1391.6	1279.4	1212.1	1137.2	1099.8	1077.4
72.5°	1459.0	1204.6	1137.2	1062.4	1010.0	965.2	957.7
75°	1204.6	1032.5	980.1	920.3	867.9	823.0	823.0
77.5°	1010.0	852.9	808.0	748.2	695.8	650.9	643.4
80°	785.6	650.9	621.0	598.5	538.7	471.4	463.9
82.5°	561.1	441.4	433.9	419.0	366.6	329.2	314.2
85°	351.6	254.4	231.9	202.0	179.6	179.6	179.6
87.5°	134.7	74.8	74.8	59.9	44.9	44.9	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)