

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: P977496

Luminaire Tested: **EPH-VN-08-E-760-U-RW**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977496
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-760-U-RW
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ RW
distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71148.1 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

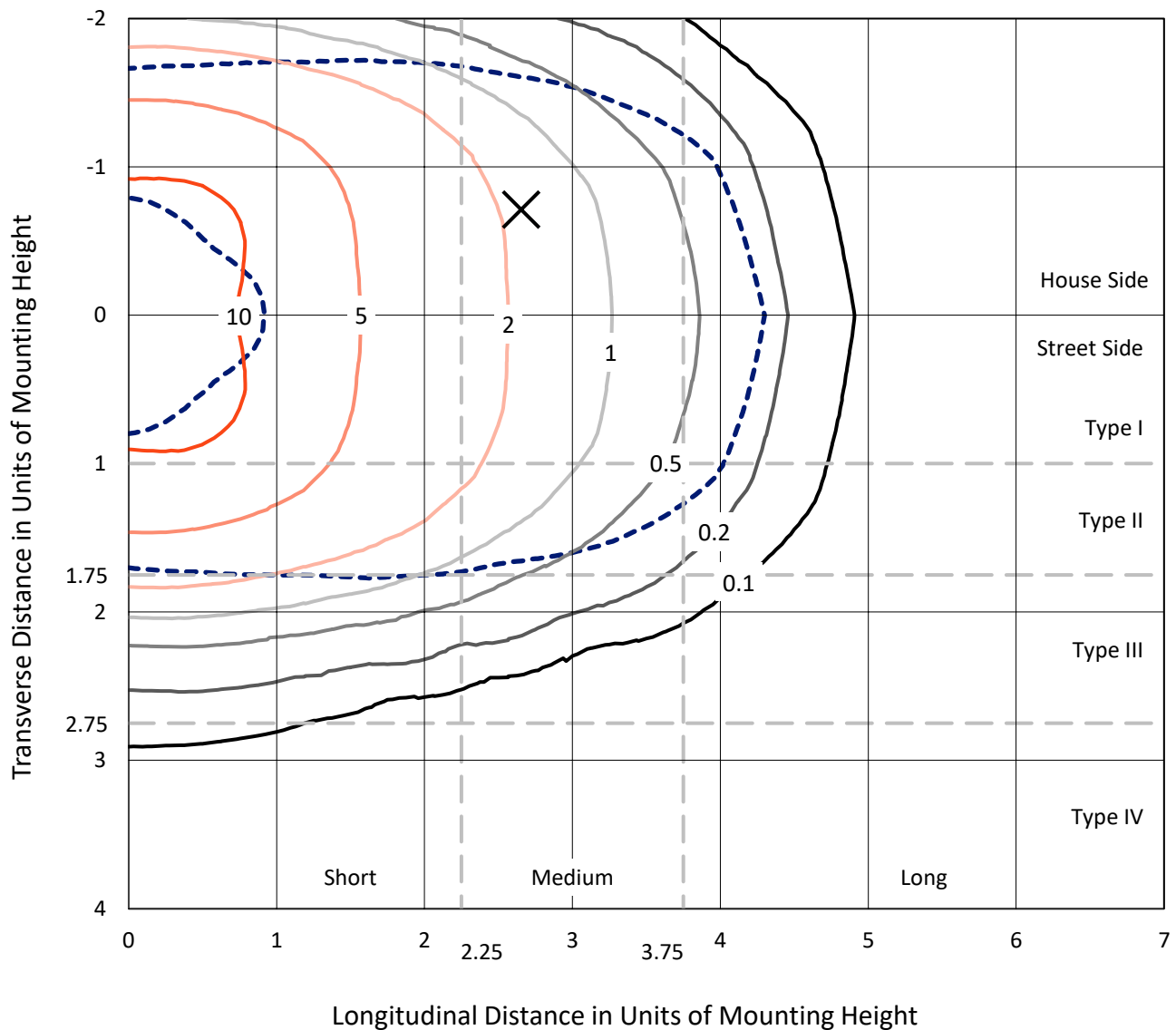
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

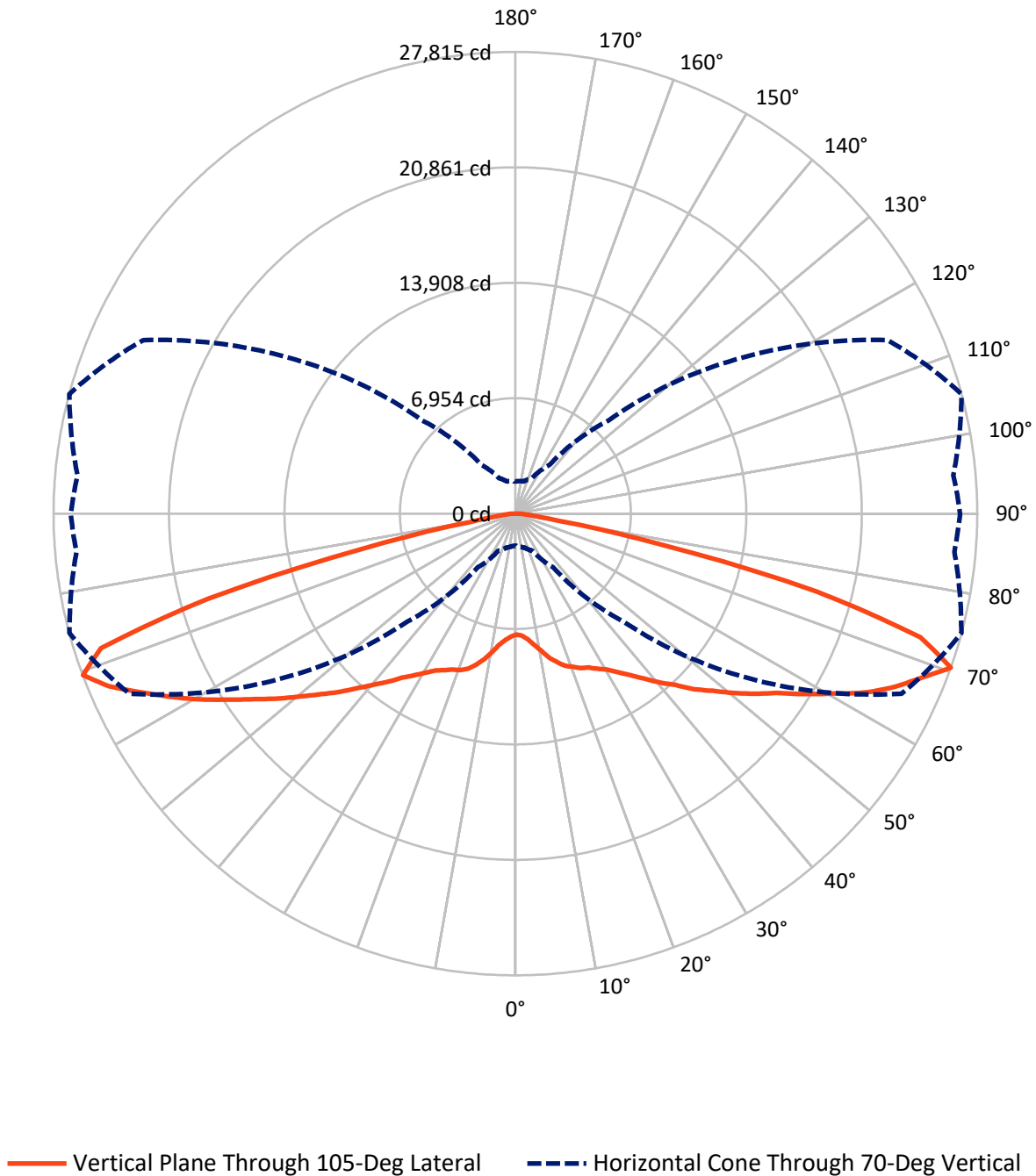


Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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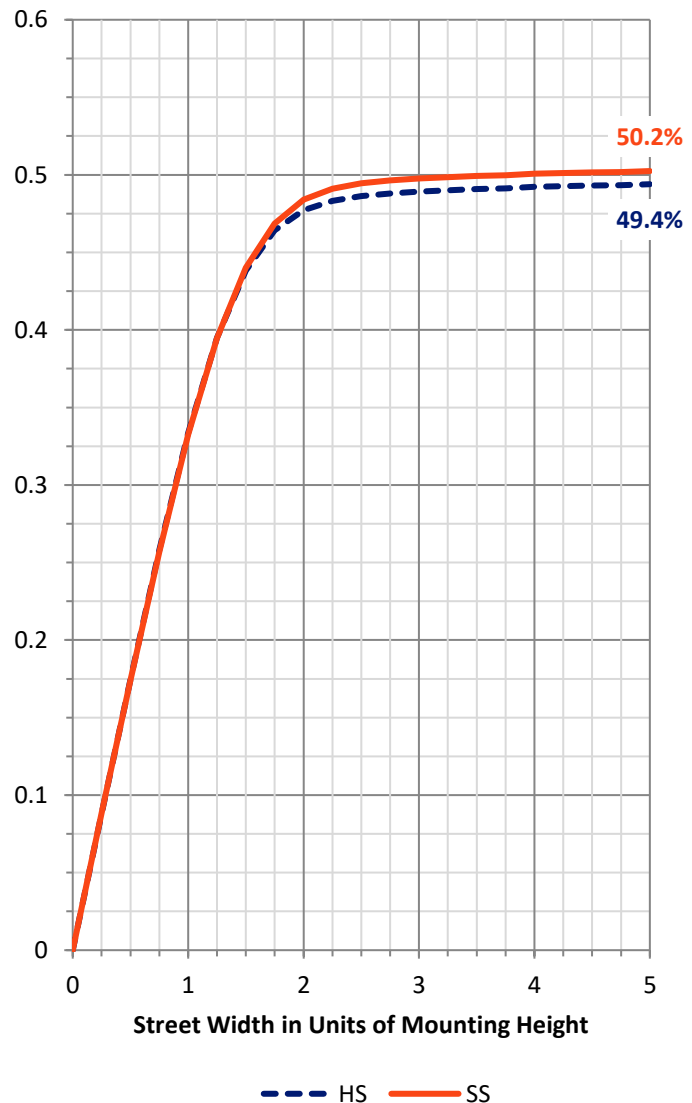
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	35320.9	0.0	35320.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	35827.1	0.0	35827.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	71148.1	0.0	71148.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.2	1.0
10°-20°	2469.1	3.5
20°-30°	4781.0	6.7
30°-40°	8086.6	11.4
40°-50°	12900.5	18.1
50°-60°	17658.0	24.8
60°-70°	16643.9	23.4
70°-80°	7332.1	10.3
80°-90°	551.7	0.8
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°	71148.1	100.0
0°-180°	71148.1	100.0

Coefficient of Utilization



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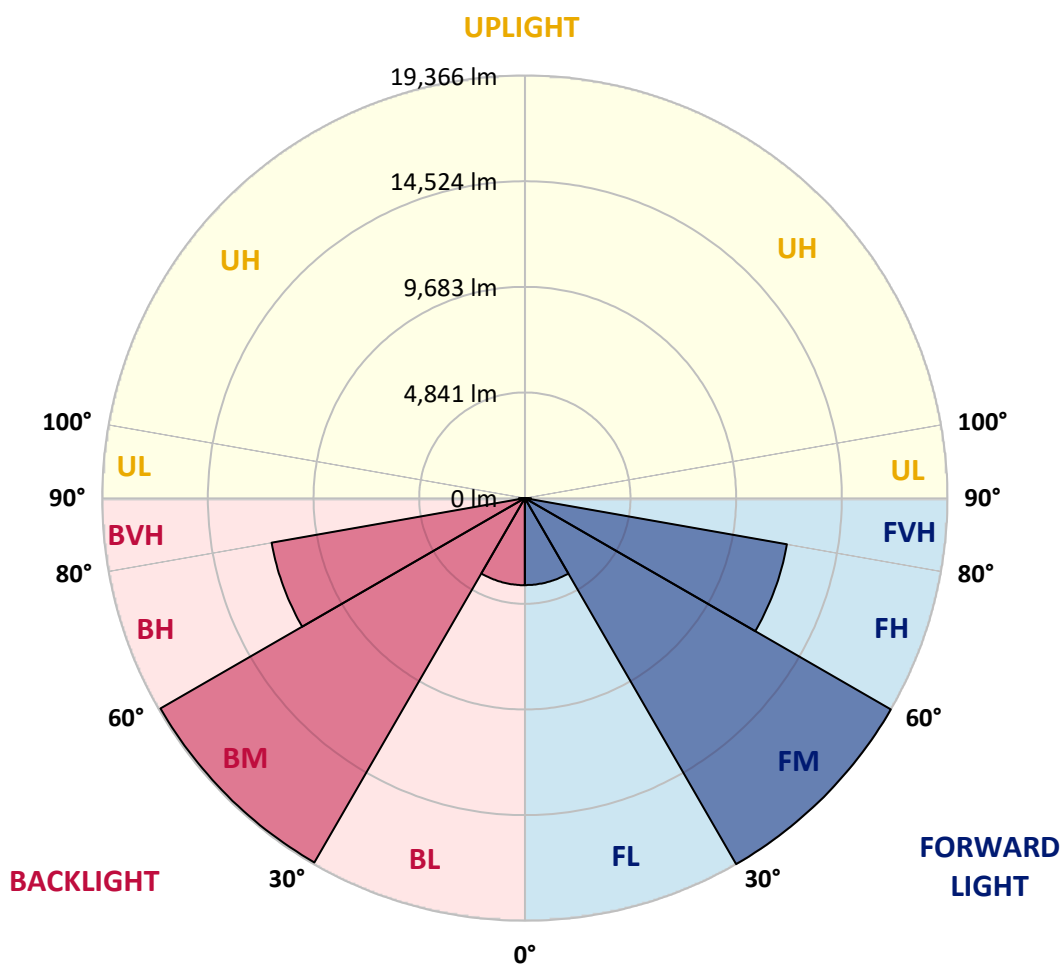
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3985.4	5.6			
FM	(30°-60°)	19365.9	27.2			
FH	(60°-80°)	12194.0	17.1			G5
FVH	(80°-90°)	281.8	0.4			G3/500
BL	(0°-30°)	3989.8	5.6	B4/5000		
BM	(30°-60°)	19279.3	27.1	B5		
BH	(60°-80°)	11782.0	16.6	B5		G5
BVH	(80°-90°)	269.9	0.4			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5
2.5°	7239.5	7239.5	7231.8	7270.2	7308.5	7323.8	7354.5	7362.2	7408.2	7369.8	7446.5
5°	7216.5	7208.8	7270.2	7362.2	7362.2	7461.9	7523.2	7607.6	7630.6	7676.6	7691.9
7.5°	7377.5	7362.2	7331.5	7431.2	7515.6	7668.9	7753.3	7899.0	7952.7	8014.0	8083.1
10°	7477.2	7477.2	7446.5	7622.9	7699.6	7906.7	8090.7	8236.4	8443.5	8512.5	8520.2
12.5°	7492.6	7515.6	7607.6	7837.7	8052.4	8320.8	8458.8	8734.9	8942.0	9072.4	9118.4
15°	7722.6	7676.6	7776.3	8090.7	8405.2	8642.9	8888.3	9087.7	9386.8	9555.5	9662.9
17.5°	7929.7	7883.7	8067.7	8443.5	8765.6	9133.7	9348.4	9563.2	9777.9	9931.3	9938.9
20°	8259.4	8297.8	8458.8	8865.3	9287.1	9609.2	9854.6	9892.9	10000.3	10222.7	10184.3
22.5°	8665.9	8635.2	8972.7	9417.5	9877.6	10146.0	10284.0	10184.3	10130.7	10368.4	10422.1
25°	9072.4	9164.4	9471.1	9885.3	10437.4	10797.9	10836.2	10560.1	10360.7	10445.1	10422.1
27.5°	9693.5	9708.9	10031.0	10521.8	11081.6	11396.0	11373.0	10981.9	10598.5	10606.1	10621.5
30°	10491.1	10414.4	10767.2	11212.0	11764.1	12047.9	12086.2	11526.4	11012.6	10859.2	10897.6
32.5°	11258.0	11350.0	11656.8	12162.9	12569.4	12730.4	12646.1	12147.6	11480.4	11273.3	11296.3
35°	12239.6	12224.3	12646.1	13075.5	13382.3	13413.0	13344.0	12615.4	11986.5	11718.1	11610.8
37.5°	13290.3	13428.3	13704.4	14057.2	14379.3	14394.6	14018.8	13436.0	12661.4	12216.6	12347.0
40°	14463.6	14617.0	14816.4	15330.2	15567.9	15322.5	14939.1	14149.2	13344.0	12952.8	13014.2
42.5°	15498.9	15567.9	15974.4	16580.2	16695.3	16587.9	16020.4	15061.8	14126.2	13696.7	13727.4
45°	16449.9	16541.9	17071.1	17615.5	17884.0	17699.9	17040.4	16127.8	15038.8	14670.7	14525.0
47.5°	17324.1	17508.2	18022.0	18581.8	18996.0	19011.3	18198.4	17094.1	15943.7	15460.6	15452.9
50°	17914.6	18183.0	18689.2	19325.7	19931.6	20169.3	19356.4	18167.7	16933.0	16419.2	16365.5
52.5°	18236.7	18512.8	19019.0	20008.3	20683.1	21051.2	20667.8	19172.3	18091.0	17554.2	17469.8
55°	17845.6	18029.7	18857.9	20246.0	21289.0	21894.8	21641.7	20560.4	19241.4	18804.2	18880.9
57.5°	16181.5	16564.9	17584.9	19318.1	21273.6	22761.4	22738.4	21871.8	20568.1	20154.0	20169.3
60°	13320.9	13643.0	14900.7	17324.1	20414.7	23114.2	23927.1	23144.9	22055.9	21572.7	21557.4
62.5°	9402.1	9808.6	11265.7	13911.5	17884.0	22623.4	25292.2	24747.7	23513.0	23160.2	23290.6
65°	5260.9	5506.3	6856.0	9248.7	13627.7	19923.9	25537.6	26411.8	24993.1	24456.2	24479.2
67.5°	2814.5	2906.5	3535.4	4854.4	8336.1	15360.9	23060.5	27370.4	26595.9	25667.9	25522.2
70°	1932.6	1963.2	2124.3	2484.7	3941.8	9187.4	17393.1	25660.3	27799.9	26534.5	26779.9
72.5°	1633.5	1618.1	1656.5	1694.8	2062.9	4110.6	10207.4	19747.5	26243.1	25767.6	25675.6
75°	1418.8	1411.1	1426.4	1388.1	1434.1	1809.9	4517.0	12308.6	19210.7	21442.3	21787.4
77.5°	1173.3	1181.0	1188.7	1150.3	1135.0	1196.4	1817.5	5406.6	9455.8	10437.4	11258.0
80°	889.6	904.9	966.3	927.9	866.6	874.3	1073.7	1809.9	2714.8	2461.7	2538.4
82.5°	605.8	613.5	743.9	697.9	651.9	590.5	690.2	935.6	1058.3	805.2	705.5
85°	429.5	421.8	483.1	444.8	414.1	299.1	414.1	529.2	636.5	398.8	360.4
87.5°	99.7	99.7	199.4	161.0	153.4	122.7	161.0	207.1	276.1	176.4	161.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5	7285.5
2.5°	7423.5	7354.5	7354.5	7339.2	7277.8	7262.5	7208.8	7224.1	7185.8	7147.4
5°	7684.3	7592.2	7592.2	7461.9	7339.2	7323.8	7262.5	7262.5	7201.1	7216.5
7.5°	8044.7	7960.4	7822.3	7707.3	7538.6	7469.5	7354.5	7339.2	7323.8	7293.2
10°	8474.2	8366.8	8228.8	7991.0	7853.0	7722.6	7607.6	7446.5	7408.2	7415.9
12.5°	9057.0	8888.3	8589.2	8382.1	8205.8	8037.0	7868.3	7630.6	7576.9	7599.9
15°	9471.1	9256.4	8957.3	8880.6	8642.9	8435.8	8159.7	7891.3	7799.3	7776.3
17.5°	9808.6	9632.2	9455.8	9340.8	9149.0	8896.0	8512.5	8205.8	7998.7	7975.7
20°	10084.7	9854.6	9816.2	9885.3	9647.5	9478.8	9011.0	8635.2	8359.1	8244.1
22.5°	10253.4	10107.7	10215.0	10276.4	10261.0	9977.3	9494.1	9057.0	8711.9	8604.5
25°	10437.4	10268.7	10652.2	10859.2	10912.9	10445.1	10069.3	9494.1	9156.7	9087.7
27.5°	10529.5	10590.8	11035.6	11472.7	11434.4	11073.9	10567.8	10054.0	9785.6	9662.9
30°	10797.9	10897.6	11572.4	12063.2	12070.9	11718.1	11334.7	10751.8	10452.8	10399.1
32.5°	11281.0	11403.7	12124.6	12646.1	12738.1	12469.7	12086.2	11725.8	11419.0	11296.3
35°	11649.1	11963.5	12776.4	13251.9	13497.3	13336.3	13121.6	12745.8	12423.7	12316.3
37.5°	12178.3	12615.4	13397.6	14041.8	14317.9	14302.6	14141.5	13735.1	13466.7	13374.6
40°	12937.5	13374.6	14087.8	14939.1	15452.9	15429.9	15337.9	15023.4	14624.7	14578.6
42.5°	13742.7	14103.2	15031.1	16005.1	16741.3	16664.6	16419.2	16051.1	15775.0	15713.7
45°	14525.0	15084.8	15943.7	17193.8	17745.9	17937.6	17646.2	17017.4	16702.9	16664.6
47.5°	15506.6	15951.4	17025.0	18144.7	18965.3	18996.0	18497.5	17914.6	17339.5	17462.2
50°	16380.8	16971.4	18060.3	19287.4	20269.0	19916.2	19279.7	18551.2	18137.0	17976.0
52.5°	17316.5	18037.3	19302.7	20552.8	21097.2	20744.5	19709.2	18896.3	18267.4	18198.4
55°	18681.5	19057.3	20713.8	21672.4	21848.8	21104.9	19578.8	18428.5	17615.5	17416.2
57.5°	20069.6	20506.7	21956.2	22784.4	22600.4	20905.5	18735.2	16956.0	15890.0	15606.3
60°	21473.0	22009.8	23229.2	23988.4	23037.5	19532.8	16350.2	14057.2	12814.8	12561.7
62.5°	23037.5	23735.4	24824.3	25092.8	21741.4	16818.0	12975.8	10146.0	8888.3	8466.5
65°	24425.6	25138.8	26480.8	24862.7	18988.3	12546.4	8389.8	5797.7	4869.8	4532.3
67.5°	25568.2	26373.5	27033.0	22002.2	13903.8	7346.8	4371.3	3052.2	2707.1	2584.4
70°	26473.2	27815.2	24732.3	16173.8	7945.0	3581.4	2362.0	2009.3	1963.2	1932.6
72.5°	25683.3	25506.9	18466.8	9333.1	3481.7	1970.9	1710.2	1656.5	1648.8	1656.5
75°	21005.2	18735.2	11043.3	4056.9	1748.5	1426.4	1418.8	1395.7	1434.1	1434.1
77.5°	10192.0	8911.3	4616.7	1740.8	1150.3	1119.7	1158.0	1158.0	1158.0	1158.0
80°	2362.0	2615.1	1648.8	1058.3	835.9	835.9	920.3	927.9	889.6	874.3
82.5°	805.2	1073.7	904.9	667.2	552.2	621.2	697.9	713.2	590.5	598.2
85°	398.8	628.9	490.8	383.4	283.8	383.4	452.5	475.5	406.5	391.1
87.5°	184.1	276.1	184.1	130.4	99.7	138.0	130.4	107.4	61.4	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)