

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: P977477

Luminaire Tested: **EPH-VN-08-E-730-U-SL2**

Issue Date: 03/26/2025

Test Information

Test Method: LM-79-08
Report Number: P977477
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-SL2
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2
distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61309.7 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

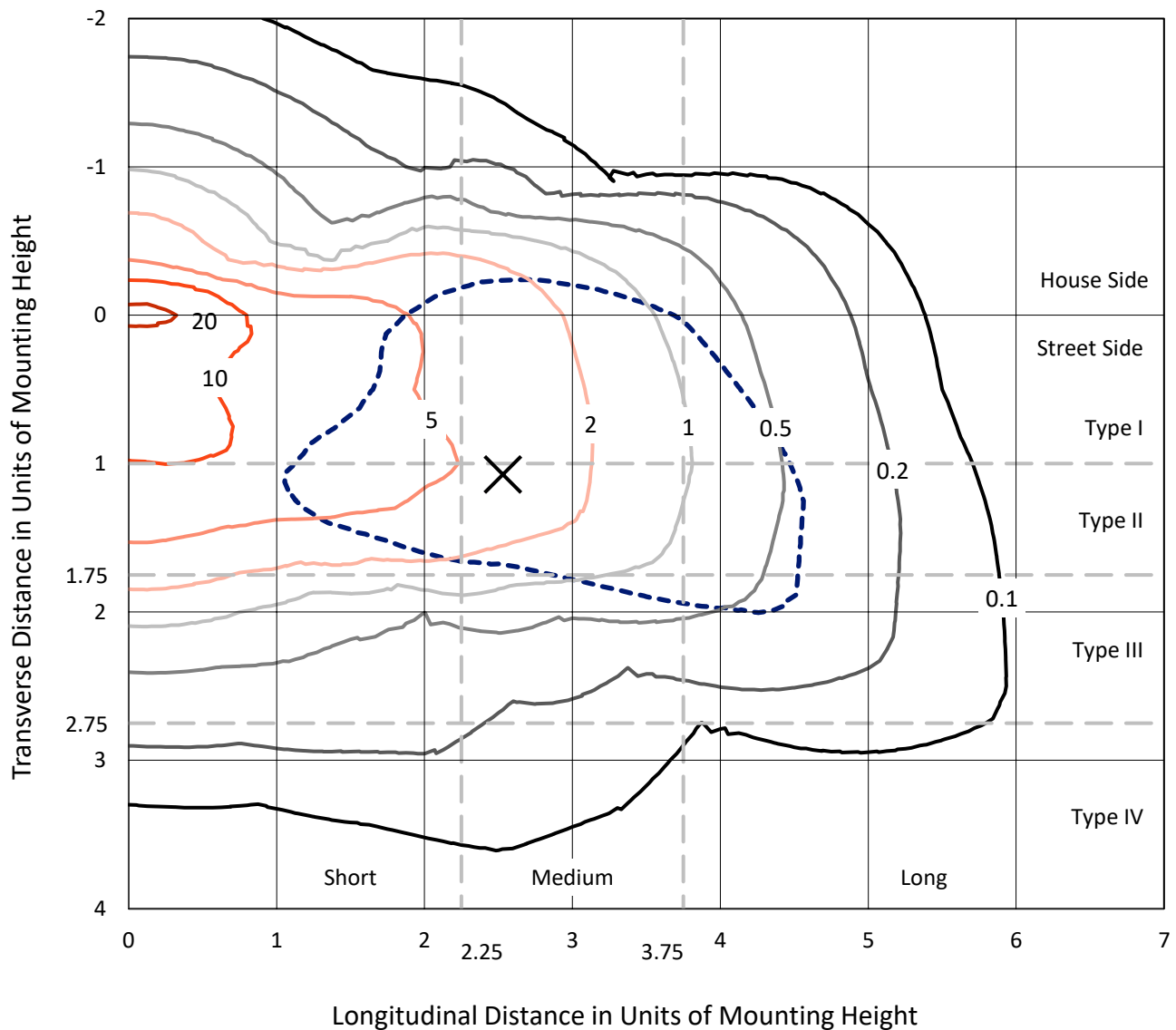
Input Watts (W): 626.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

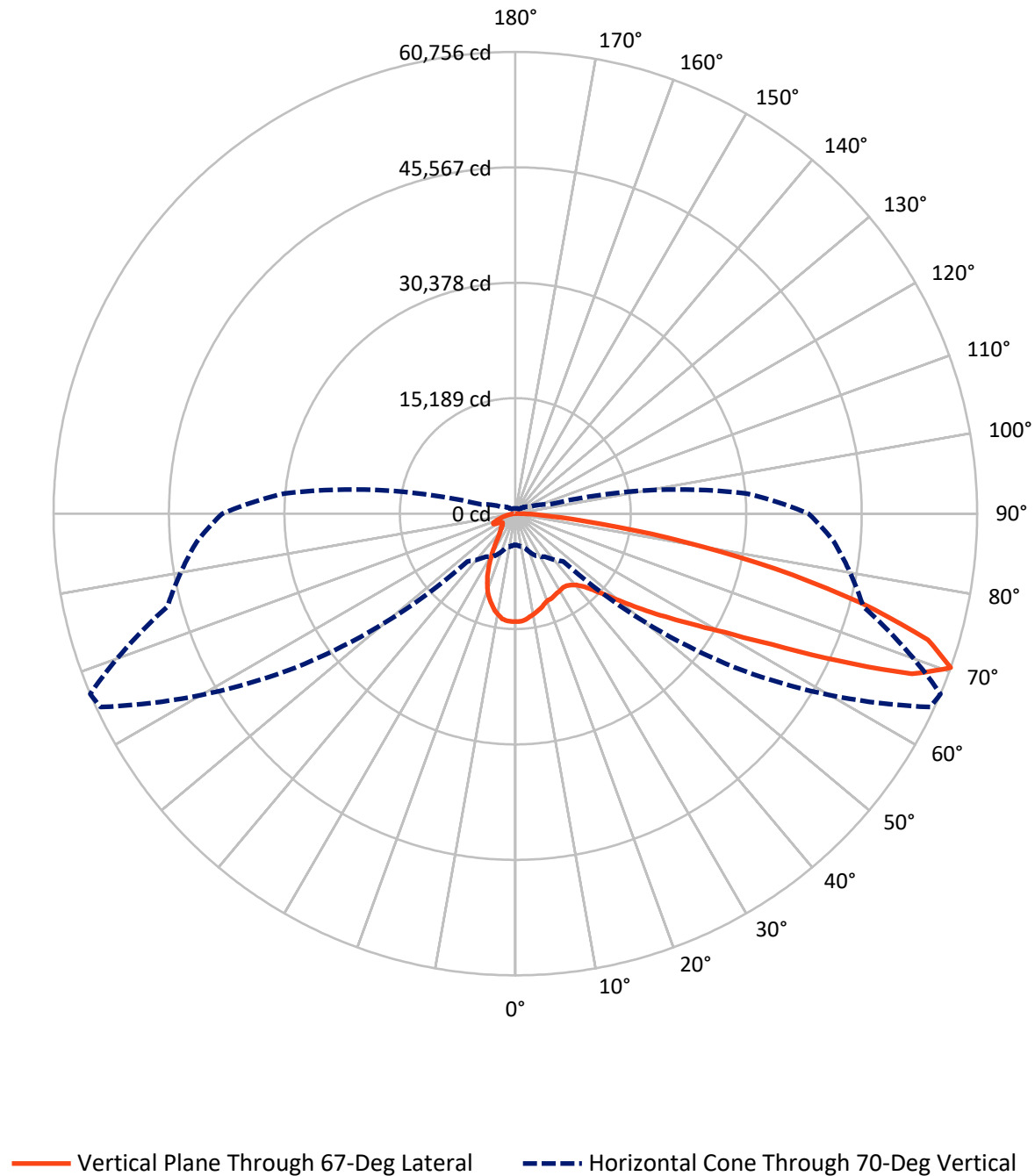


Based on 25 foot mounting height. Maximum calculated value = 22.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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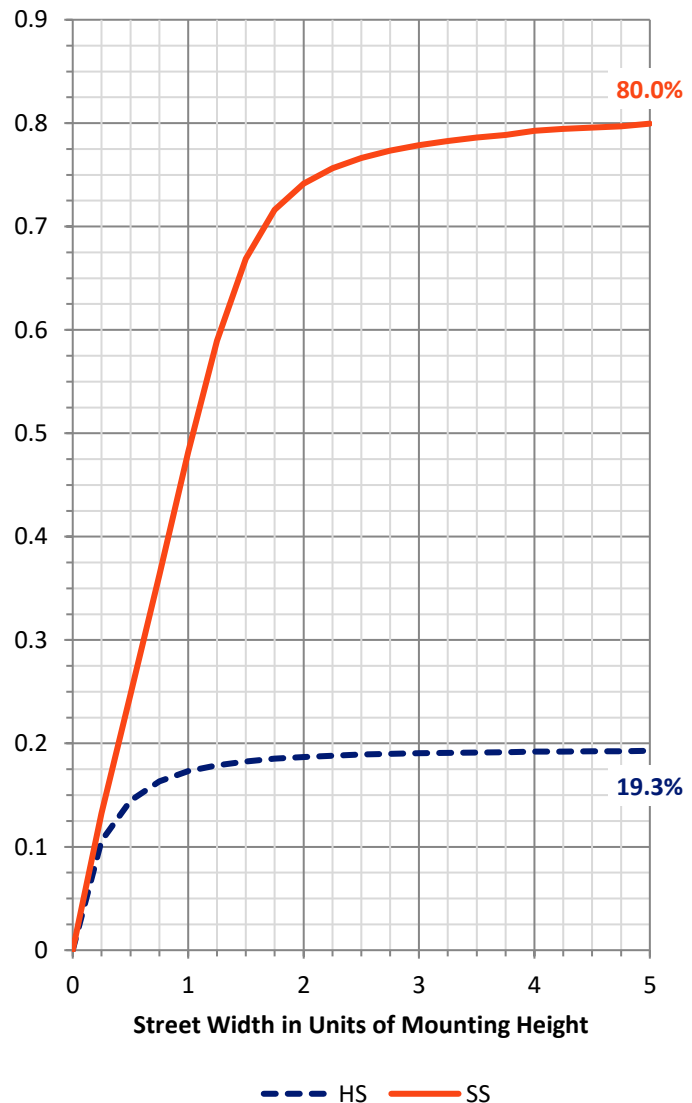
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11940.7	0.0	11940.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	49369.0	0.0	49369.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	61309.7	0.0	61309.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1238.4	2.0
10°-20°	2965.9	4.8
20°-30°	4005.2	6.5
30°-40°	5359.3	8.7
40°-50°	7880.7	12.9
50°-60°	12284.0	20.0
60°-70°	15131.9	24.7
70°-80°	10692.0	17.4
80°-90°	1752.5	2.9
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°	61309.7	100.0
0°-180°	61309.7	100.0

Coefficient of Utilization



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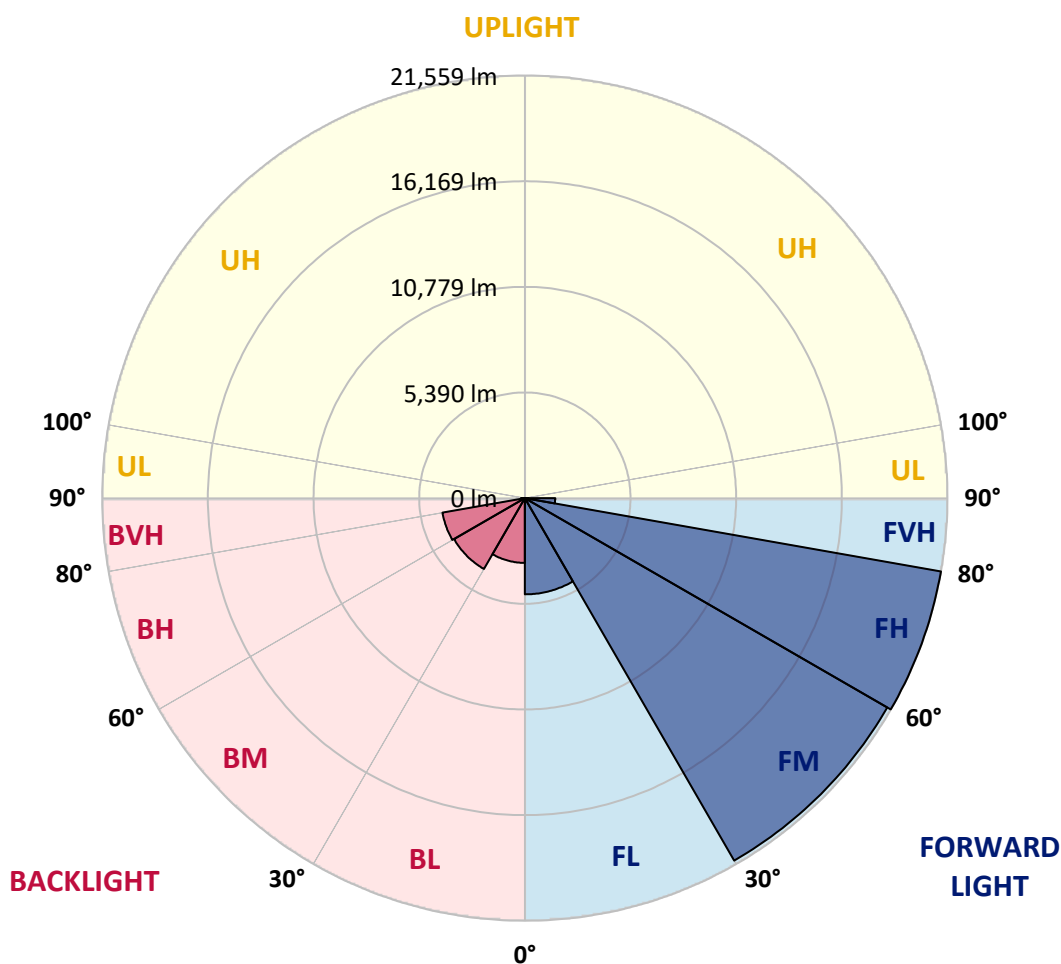
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4907.4	8.0			
FM	(30°-60°)	21352.8	34.8			
FH	(60°-80°)	21558.5	35.2			G5
FVH	(80°-90°)	1550.3	2.5			G5
BL	(0°-30°)	3302.0	5.4	B4/5000		
BM	(30°-60°)	4171.1	6.8	B3/5000		
BH	(60°-80°)	4265.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	202.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0
2.5°	13215.6	13364.9	13419.2	13500.7	13711.1	13867.2	13962.2	14070.8	14199.8	14308.4	14376.3
5°	12292.5	12373.9	12502.9	12591.1	12855.8	13276.7	13561.7	14023.3	14009.7	14179.4	14437.4
7.5°	11396.5	11477.9	11539.0	11715.5	12095.6	12475.7	12998.4	13745.0	13690.7	14084.4	14484.9
10°	10839.9	10778.8	10799.2	11097.8	11396.5	11824.1	12482.5	13242.7	13439.6	14050.5	14620.6
12.5°	10317.2	10249.4	10412.3	10602.3	10968.9	11355.8	12143.1	12828.7	13127.3	13928.3	14681.7
15°	9991.4	9943.9	10147.6	10229.0	10663.4	11125.0	11681.6	12516.4	12842.3	13779.0	14586.7
17.5°	9808.2	9848.9	9923.6	10100.0	10378.3	10772.0	11382.9	12306.0	12448.6	13595.7	14566.3
20°	9842.1	9889.6	9896.4	9971.1	10161.1	10466.6	11091.0	12082.0	12177.1	13561.7	14620.6
22.5°	10113.6	10045.7	10072.9	10025.4	10079.7	10317.2	10867.0	11783.4	12149.9	13276.7	14505.2
25°	10520.9	10425.8	10412.3	10249.4	10147.6	10215.4	10826.3	11708.7	11946.3	13188.4	14498.4
27.5°	11240.4	11097.8	11097.8	10853.5	10439.4	10330.8	10710.9	11586.5	11797.0	13107.0	14342.3
30°	11932.7	11932.7	11939.5	11593.3	11131.8	10595.5	10758.4	11539.0	11674.8	12862.6	14131.9
32.5°	12774.4	12754.0	12720.1	12550.4	11837.7	11036.7	10989.2	11477.9	11545.8	12781.2	14070.8
35°	13595.7	13541.4	13806.1	13656.8	12930.5	11898.8	11226.8	11505.1	11654.4	12659.0	13880.8
37.5°	14213.4	14247.3	14797.1	14892.1	14267.7	12876.2	11898.8	11776.6	11919.1	12835.5	13880.8
40°	15014.3	15150.1	15665.9	15984.9	15604.8	14165.8	12964.4	12231.4	12333.2	13229.1	14179.4
42.5°	16066.4	16181.8	16840.2	17254.2	17145.6	15808.5	14016.5	13181.6	13100.2	13887.6	14627.4
45°	17457.9	17478.2	18143.4	18713.6	18937.6	17525.7	15686.3	14383.1	14315.2	15021.1	15448.7
47.5°	19114.1	19093.7	19507.7	20118.6	20722.7	19575.6	17607.2	16208.9	15964.6	16643.3	16813.0
50°	20715.9	20627.7	20722.7	21503.3	22664.0	22141.3	19942.1	18442.1	18197.7	18571.0	18862.9
52.5°	21598.3	21706.9	21449.0	22480.7	24727.4	25175.4	23037.3	21109.6	20899.2	21082.5	21591.5
55°	20980.7	21204.7	21035.0	22012.4	25630.2	28874.7	27042.0	24198.0	23926.5	23858.6	24693.5
57.5°	18353.8	18761.1	18795.0	20342.6	25318.0	31739.1	32675.8	27843.0	27435.7	26743.4	27605.4
60°	14091.2	14498.4	14810.7	16643.3	22643.6	33449.6	39205.5	33028.8	31684.8	29892.9	30408.7
62.5°	9876.0	10154.3	10466.6	11593.3	17457.9	32445.0	44852.9	40332.3	37854.8	33212.0	33856.8
65°	7194.9	7412.1	7731.1	8396.3	10724.5	26845.2	47472.9	49006.9	46658.4	37433.9	37352.5
67.5°	5416.6	5552.3	5973.1	7038.8	7432.5	16582.3	44757.8	58170.2	56269.7	42124.2	40162.6
70°	4099.7	4215.1	4608.8	6068.2	6943.8	8891.8	35309.4	60213.3	60756.3	47384.7	42049.6
72.5°	2823.7	2952.6	3393.8	5056.8	6611.2	7052.4	22161.7	54701.8	56758.4	49549.9	40026.8
75°	1730.9	1819.1	2077.0	3835.0	6563.7	6896.3	12197.4	44825.7	47004.5	45782.8	35017.5
77.5°	1221.8	1215.0	1262.5	2246.7	5688.1	6937.0	7520.7	32845.5	34963.2	33741.5	23763.6
80°	889.2	896.0	943.5	1344.0	3862.2	7052.4	5925.6	21998.8	22630.1	17593.6	9373.8
82.5°	536.2	563.4	678.8	909.5	2321.4	6366.8	5477.6	12224.6	11437.2	5647.3	2579.3
85°	285.1	285.1	400.5	577.0	1235.4	4751.4	5274.0	5817.0	4873.5	1751.2	957.1
87.5°	67.9	67.9	115.4	230.8	495.5	2273.9	3597.5	2314.6	1853.0	590.5	393.7
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°	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0	14193.0
2.5°	14349.1	14267.7	14369.5	14165.8	14002.9	14009.7	13758.6	13745.0	13711.1	13534.6	13595.7
5°	14512.0	14444.1	14328.8	14104.8	13745.0	13385.3	13168.1	12889.8	12774.4	12713.3	12740.4
7.5°	14668.1	14546.0	14213.4	13901.1	13344.5	12665.8	12272.1	11898.8	11423.6	11369.3	11274.3
10°	14708.9	14450.9	14023.3	13358.1	12618.3	11864.8	10968.9	10276.5	9910.0	9624.9	9516.3
12.5°	14647.8	14539.2	13717.9	12862.6	11742.7	10561.6	9516.3	8538.9	7860.1	7507.2	7412.1
15°	14641.0	14450.9	13378.5	12109.2	10677.0	9136.2	7649.7	6475.4	5762.7	5470.9	5470.9
17.5°	14647.8	14193.0	12978.0	11349.0	9421.3	7337.5	5701.6	4737.8	4344.1	4303.4	4337.3
20°	14512.0	14002.9	12557.2	10453.0	7846.5	5511.6	4140.5	3746.8	3746.8	3801.1	3821.5
22.5°	14389.8	13717.9	11892.0	9346.6	6244.6	3991.1	3366.7	3251.3	3380.3	3475.3	3516.0
25°	14220.1	13480.3	11213.2	8199.5	4751.4	3217.4	2925.5	2952.6	3074.8	3244.5	3230.9
27.5°	13975.8	13066.2	10405.5	6869.1	3536.4	2776.2	2701.5	2715.1	2844.0	2918.7	2905.1
30°	13697.5	12645.4	9658.8	5545.5	2803.3	2545.4	2538.6	2572.5	2592.9	2633.6	2626.8
32.5°	13344.5	12088.8	8864.7	4310.2	2525.0	2416.4	2389.3	2368.9	2389.3	2382.5	2362.1
35°	13093.4	11790.2	8057.0	3285.2	2368.9	2301.0	2280.7	2246.7	2219.6	2178.8	2172.1
37.5°	13025.5	11491.5	7208.5	2681.1	2246.7	2212.8	2144.9	2083.8	2049.9	2029.5	2015.9
40°	12984.8	11294.7	6380.4	2355.3	2144.9	2111.0	2029.5	1948.1	1914.1	1893.8	1900.5
42.5°	13127.3	11186.1	5538.7	2192.4	2056.7	1995.6	1907.3	1812.3	1805.5	1791.9	1812.3
45°	13629.6	11321.8	4758.1	2077.0	1968.4	1866.6	1751.2	1703.7	1696.9	1683.3	1696.9
47.5°	14769.9	11661.2	4093.0	2002.4	1873.4	1785.2	1663.0	1595.1	1588.3	1581.5	1581.5
50°	16344.7	12706.5	3536.4	1914.1	1812.3	1690.1	1574.7	1500.1	1486.5	1459.3	1459.3
52.5°	18815.4	14464.5	3203.8	1866.6	1703.7	1601.9	1479.7	1398.3	1364.3	1337.2	1337.2
55°	21598.3	16643.3	3142.7	1785.2	1588.3	1493.3	1384.7	1303.2	1269.3	1235.4	1221.8
57.5°	24768.2	19528.1	3577.1	1730.9	1506.9	1384.7	1262.5	1187.8	1160.7	1126.8	1113.2
60°	27720.8	22406.1	4927.8	1649.4	1432.2	1282.9	1160.7	1086.0	1052.1	1018.1	1018.1
62.5°	31135.0	25969.6	7215.3	1649.4	1364.3	1174.3	1052.1	997.8	977.4	943.5	936.7
65°	35173.7	29655.3	8885.0	1751.2	1344.0	1079.2	950.3	896.0	875.6	855.2	848.5
67.5°	38248.5	31773.0	7642.9	2022.7	1432.2	997.8	848.5	814.5	800.9	780.6	767.0
70°	38574.3	30483.4	4608.8	2185.6	1520.4	916.3	760.2	726.3	726.3	705.9	692.3
72.5°	35648.8	27048.8	3102.0	1948.1	1377.9	821.3	672.0	644.8	631.3	617.7	610.9
75°	29831.8	22942.3	2450.3	1554.4	1058.9	678.8	583.7	556.6	536.2	529.4	515.9
77.5°	20037.2	14912.5	1812.3	1215.0	780.6	549.8	488.7	461.6	441.2	434.4	414.0
80°	7697.2	5681.3	1167.5	882.4	549.8	434.4	386.9	359.7	346.2	325.8	312.2
82.5°	2267.1	1839.5	651.6	543.0	353.0	298.7	278.3	257.9	237.6	217.2	210.4
85°	936.7	841.7	400.5	285.1	217.2	176.5	162.9	142.5	122.2	108.6	95.0
87.5°	434.4	359.7	183.3	108.6	74.7	40.7	20.4	6.8	0.0	0.0	0.0
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)