

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: STREETWORKS

Report Number: P841743

Luminaire Tested: **ARCH4-220-730-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-220-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22733 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 221.8
Input Voltage (V): NR
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: 24 FT

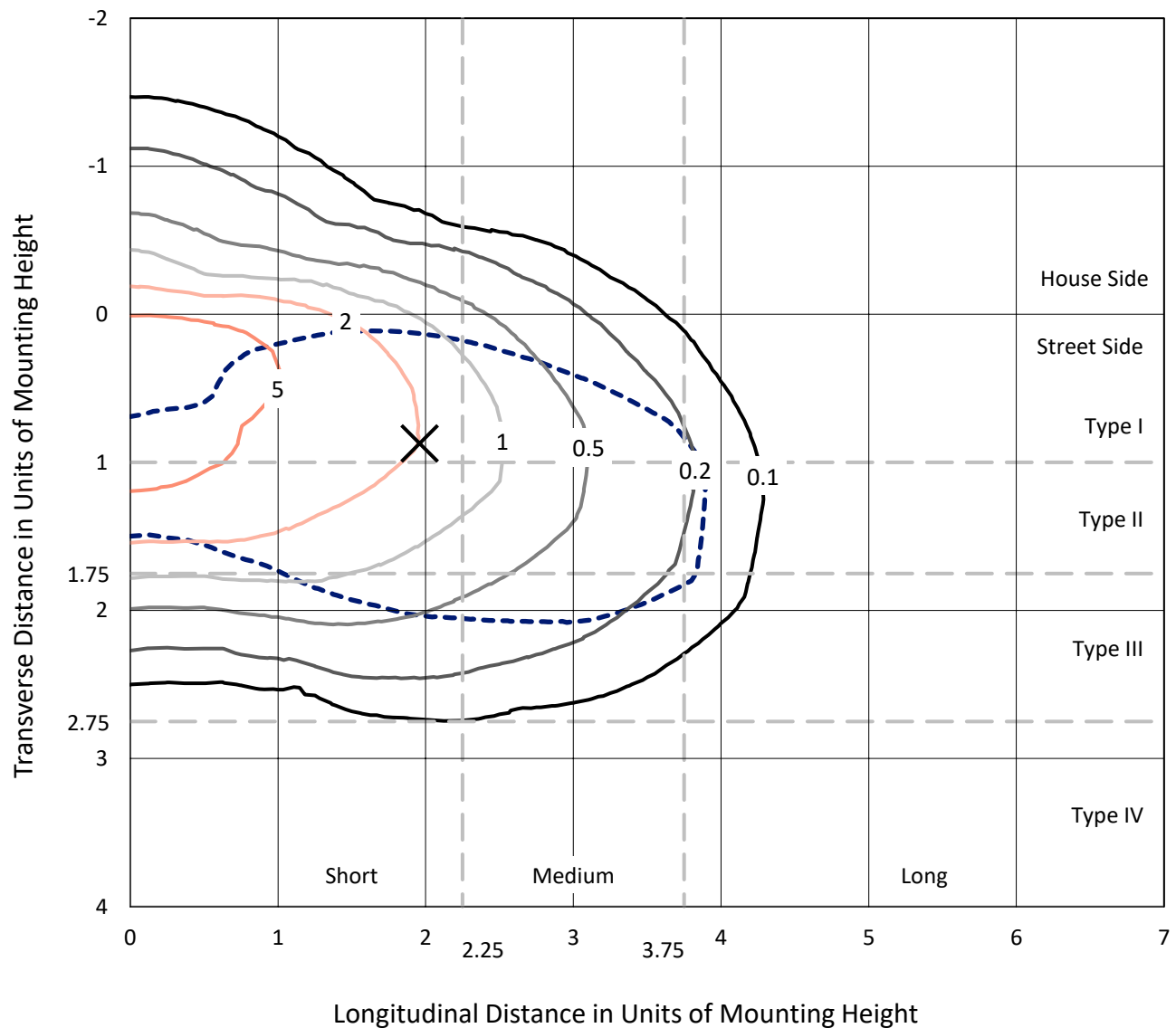


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Iso-Footcandle Lines of Horizontal Illumination

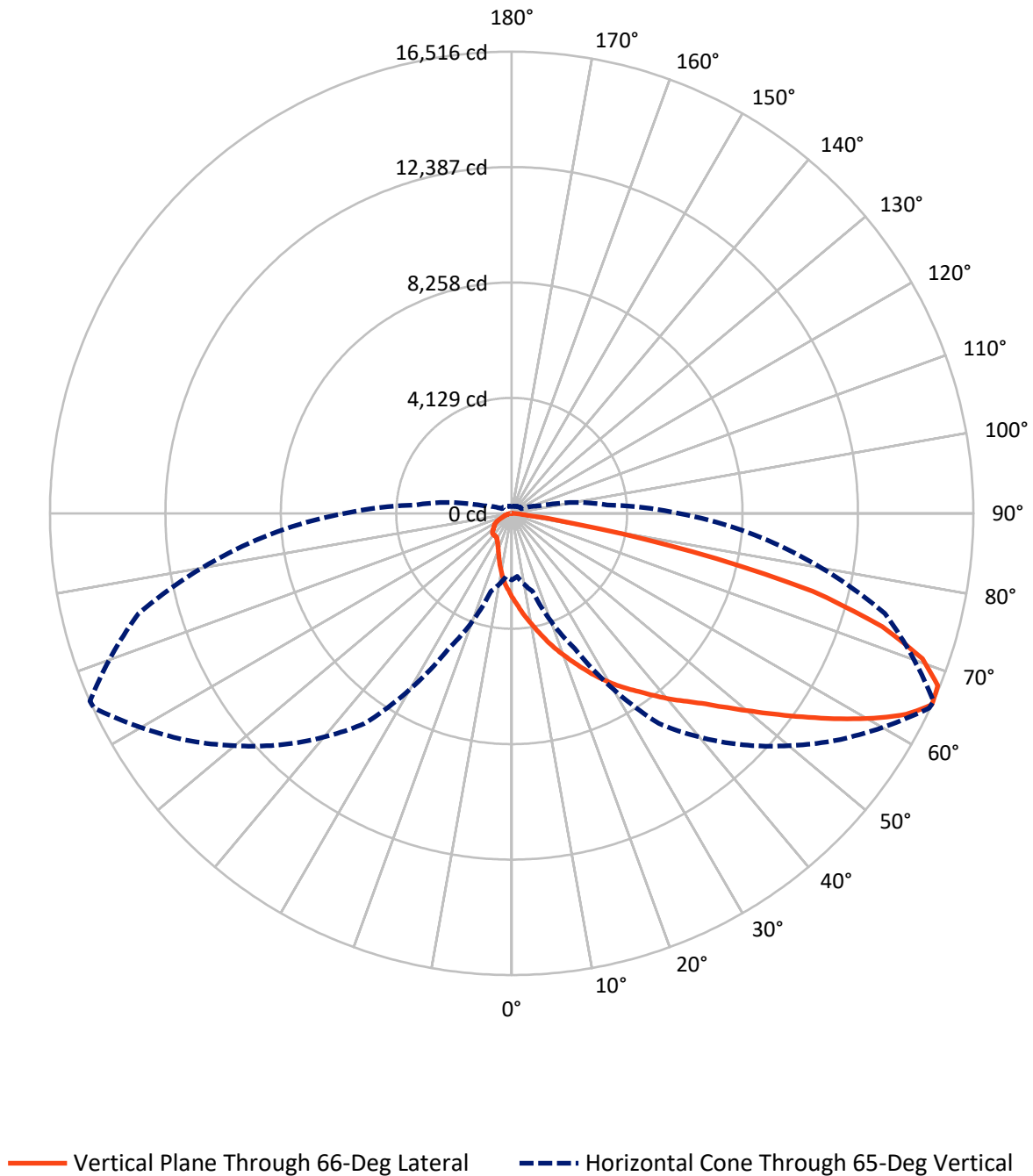
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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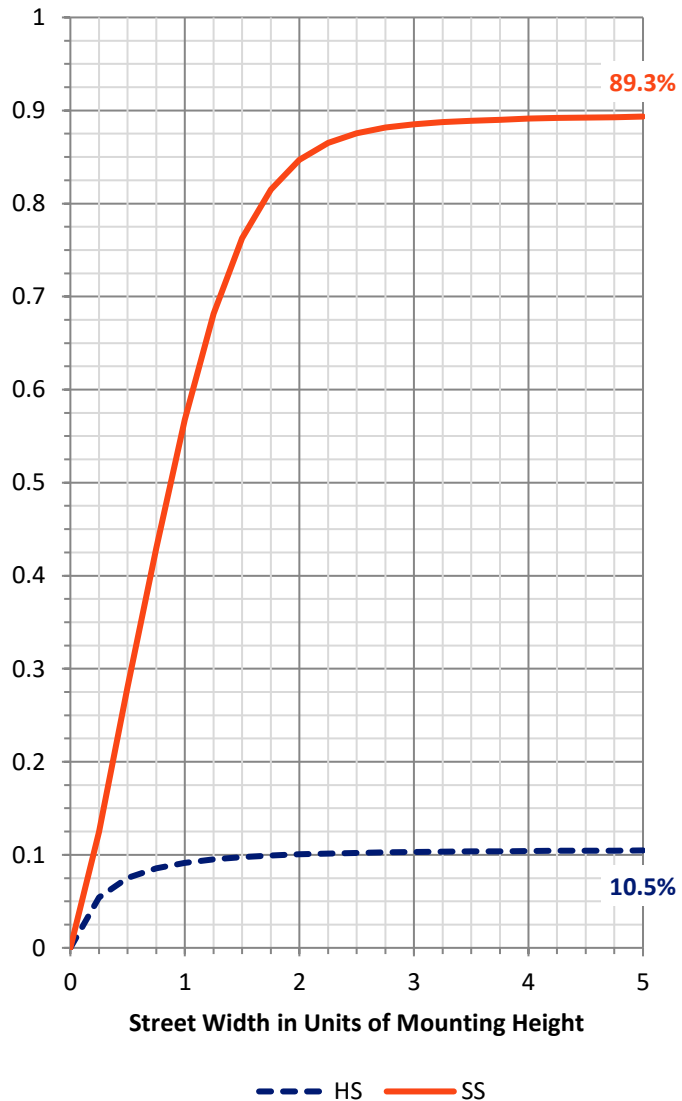
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2404.6	0.0	2404.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	20328.5	0.0	20328.5
	% Fixture	89.4	0.0	89.4
Total	Lumens	22733.0	0.0	22733.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.3
10°-20°	967.8	4.3
20°-30°	1751.1	7.7
30°-40°	2738.3	12.0
40°-50°	4154.0	18.3
50°-60°	5277.7	23.2
60°-70°	4931.5	21.7
70°-80°	2450.9	10.8
80°-90°	164.7	0.7
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°	22733.0	100.0
0°-180°	22733.0	100.0

Coefficient of Utilization



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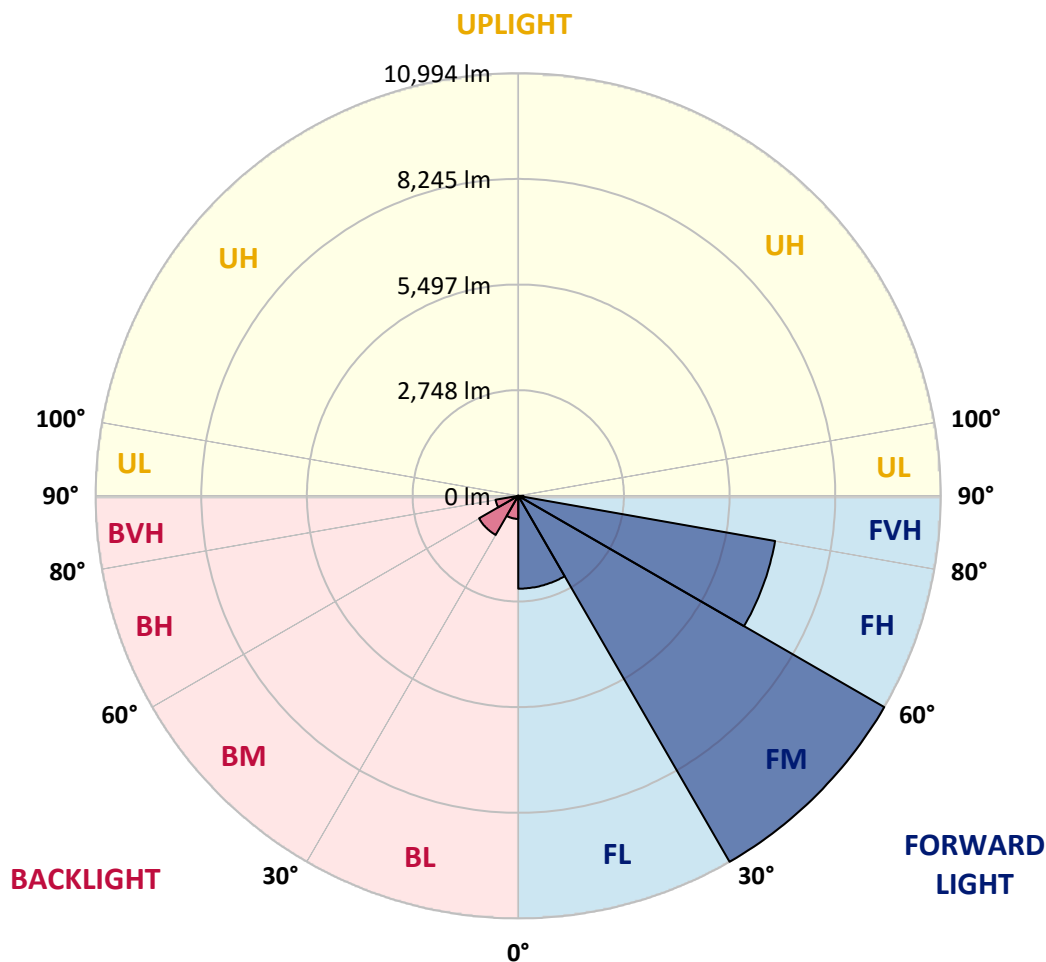
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2415.4	10.6			
FM	(30°-60°)	10993.9	48.4			
FH	(60°-80°)	6783.6	29.8			G3/7500
FVH	(80°-90°)	135.5	0.6			G2/225
BL	(0°-30°)	600.5	2.6	B2/1000		
BM	(30°-60°)	1176.1	5.2	B2/2500		
BH	(60°-80°)	598.8	2.6	B2/1000		G2/1000
BVH	(80°-90°)	29.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6
2.5°	3514.0	3542.6	3556.9	3561.7	3452.0	3404.3	3356.6	3247.0	3223.1	3161.2	3080.1
5°	4133.8	4172.0	4162.4	4143.4	4009.9	3857.3	3733.3	3528.3	3494.9	3347.1	3165.9
7.5°	4744.1	4777.5	4768.0	4696.4	4548.6	4334.1	4129.1	3828.7	3781.0	3542.6	3251.8
10°	5254.3	5282.9	5278.1	5206.6	5030.2	4768.0	4520.0	4119.5	4062.3	3723.8	3323.3
12.5°	5673.9	5712.0	5707.3	5659.6	5502.2	5216.2	4934.8	4453.3	4381.8	3943.1	3423.4
15°	6002.9	6050.6	6050.6	6031.5	5921.8	5683.4	5364.0	4820.4	4734.6	4195.8	3547.4
17.5°	6203.1	6241.3	6274.6	6308.0	6231.7	6050.6	5759.7	5187.5	5097.0	4443.7	3676.1
20°	6308.0	6346.2	6370.0	6441.5	6455.8	6365.2	6136.4	5549.9	5454.6	4725.1	3823.9
22.5°	6479.7	6513.0	6517.8	6579.8	6608.4	6632.2	6489.2	5907.5	5831.2	5035.0	3990.8
25°	6765.7	6803.9	6789.6	6818.2	6823.0	6851.6	6837.3	6317.6	6241.3	5387.8	4191.0
27.5°	7132.9	7180.6	7171.0	7142.4	7099.5	7075.7	7137.6	6732.4	6660.9	5740.6	4396.1
30°	7528.6	7585.8	7571.5	7514.3	7399.9	7299.8	7385.6	7123.3	7056.6	6103.0	4624.9
32.5°	7929.1	7995.9	7991.1	7895.8	7700.3	7528.6	7657.4	7490.5	7442.8	6494.0	4872.9
35°	8191.4	8277.2	8267.7	8210.4	7957.7	7809.9	7967.3	7867.1	7833.8	6970.8	5230.5
37.5°	8615.7	8706.3	8625.3	8482.2	8191.4	8115.1	8305.8	8291.5	8267.7	7476.2	5607.1
40°	9645.6	9779.1	9564.5	8978.1	8501.3	8434.5	8706.3	8763.5	8739.7	7976.8	5945.7
42.5°	10723.2	10923.4	10589.7	9779.1	9063.9	8820.7	9145.0	9226.0	9197.4	8405.9	6250.8
45°	11376.4	11462.2	11128.4	10499.1	10060.4	9288.0	9612.2	9745.7	9721.9	8920.9	6641.8
47.5°	11910.4	11877.0	11495.6	11071.2	11152.3	9946.0	10141.5	10403.7	10384.6	9488.3	7070.9
50°	12024.8	11948.5	11796.0	11528.9	11743.5	10613.5	10699.3	11152.3	11133.2	10117.6	7504.8
52.5°	11219.0	11118.9	11533.7	11757.8	11686.3	11099.8	11314.4	11972.4	11962.8	10799.4	7919.6
55°	9206.9	9125.9	10241.6	11400.2	11624.3	11443.1	11996.2	12825.8	12878.3	11524.2	8296.3
57.5°	7242.5	7156.7	8253.4	10503.8	11395.4	11757.8	12792.5	13803.3	13870.0	12310.9	8653.9
60°	5774.0	5645.3	6484.4	9092.5	10966.3	12001.0	13560.1	14876.1	14885.6	13030.9	8873.2
62.5°	3924.0	3781.0	4710.8	7304.5	10246.4	12039.1	14151.3	15801.0	15839.2	13569.6	8911.3
65°	2384.0	2264.8	2894.2	5335.4	9183.1	11714.9	14160.9	16482.9	16516.2	13817.6	8682.5
67.5°	1382.7	1335.0	1654.5	3323.3	7419.0	10842.4	13564.9	16378.0	16440.0	13712.7	8162.8
70°	805.8	801.0	920.2	1644.9	5235.2	9111.6	12234.6	15495.9	15586.5	13164.4	7366.5
72.5°	591.2	600.8	648.4	882.1	3032.4	6560.7	10360.8	13722.2	13860.5	12091.6	6231.7
75°	467.3	472.0	514.9	600.8	1592.5	3709.5	7762.3	11014.0	11123.7	10179.6	4868.1
77.5°	348.1	357.6	391.0	424.3	739.0	1702.2	4367.5	6784.8	6603.6	5588.1	2350.6
80°	252.7	276.5	290.8	305.1	391.0	658.0	1311.2	2364.9	2345.8	2441.2	1110.9
82.5°	162.1	181.2	195.5	205.0	233.6	314.7	391.0	529.2	572.2	948.8	443.4
85°	71.5	81.1	90.6	109.7	100.1	109.7	162.1	104.9	90.6	143.0	81.1
87.5°	0.0	0.0	14.3	23.8	19.1	9.5	28.6	19.1	14.3	14.3	14.3
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°	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6	3008.6
2.5°	3037.2	2984.7	2875.1	2770.2	2708.2	2627.2	2555.6	2488.9	2484.1	2465.0	2431.7
5°	3075.3	2975.2	2770.2	2574.7	2426.9	2269.6	2136.0	2031.2	1993.0	1964.4	1926.3
7.5°	3113.5	2956.1	2651.0	2364.9	2131.3	1912.0	1754.6	1611.6	1568.7	1530.5	1506.7
10°	3127.8	2922.8	2512.7	2131.3	1826.1	1592.5	1425.6	1320.7	1282.6	1263.5	1249.2
12.5°	3170.7	2903.7	2384.0	1912.0	1559.1	1344.6	1225.4	1163.4	1149.1	1134.8	1120.5
15°	3227.9	2903.7	2255.2	1697.4	1349.3	1177.7	1106.2	1063.3	1053.7	1049.0	1039.4
17.5°	3289.9	2903.7	2131.3	1516.2	1196.8	1068.0	1015.6	991.7	987.0	982.2	977.4
20°	3375.7	2908.5	1997.8	1358.9	1087.1	987.0	944.1	915.4	910.7	905.9	905.9
22.5°	3461.5	2918.0	1869.0	1239.7	1015.6	925.0	872.5	843.9	834.4	834.4	834.4
25°	3571.2	2946.6	1749.8	1139.5	953.6	867.8	801.0	777.2	772.4	772.4	767.6
27.5°	3699.9	2980.0	1644.9	1063.3	891.6	801.0	734.3	710.4	700.9	700.9	696.1
30°	3838.2	3013.4	1559.1	1006.0	829.6	734.3	672.3	643.7	634.1	638.9	634.1
32.5°	3990.8	3061.0	1492.4	967.9	772.4	677.1	619.8	586.5	581.7	581.7	576.9
35°	4248.3	3194.5	1482.8	948.8	724.7	634.1	576.9	543.5	538.8	538.8	534.0
37.5°	4524.8	3347.1	1525.7	939.3	686.6	596.0	543.5	510.2	505.4	505.4	505.4
40°	4758.4	3461.5	1573.4	939.3	662.7	562.6	514.9	486.3	486.3	486.3	486.3
42.5°	4915.8	3471.1	1563.9	939.3	643.7	538.8	495.9	467.3	467.3	472.0	467.3
45°	5149.4	3518.8	1525.7	925.0	629.4	519.7	476.8	453.0	448.2	453.0	453.0
47.5°	5425.9	3604.6	1487.6	867.8	624.6	500.6	462.5	433.9	429.1	433.9	429.1
50°	5688.2	3680.9	1468.5	791.5	615.1	481.6	443.4	414.8	410.0	414.8	410.0
52.5°	5907.5	3714.2	1435.2	739.0	591.2	462.5	424.3	395.7	386.2	391.0	391.0
55°	6083.9	3704.7	1387.5	696.1	548.3	443.4	400.5	376.7	362.4	362.4	357.6
57.5°	6246.0	3709.5	1344.6	653.2	500.6	414.8	381.4	352.8	333.8	329.0	324.2
60°	6308.0	3685.6	1268.3	596.0	453.0	391.0	357.6	324.2	305.1	300.4	295.6
62.5°	6222.2	3599.8	1168.2	495.9	410.0	362.4	333.8	300.4	281.3	276.5	271.8
65°	5979.0	3437.7	1015.6	391.0	371.9	329.0	305.1	281.3	257.5	247.9	243.2
67.5°	5564.2	3204.1	824.9	314.7	329.0	300.4	286.1	257.5	228.9	219.3	214.6
70°	4973.0	2894.2	619.8	267.0	290.8	267.0	257.5	228.9	205.0	195.5	190.7
72.5°	4143.4	2393.5	433.9	228.9	252.7	233.6	224.1	205.0	181.2	166.9	166.9
75°	3132.6	1716.5	286.1	195.5	209.8	200.3	186.0	171.6	157.3	147.8	143.0
77.5°	1349.3	667.5	176.4	147.8	171.6	166.9	147.8	138.3	133.5	124.0	124.0
80°	581.7	271.8	109.7	109.7	124.0	119.2	114.4	104.9	104.9	100.1	95.4
82.5°	214.6	109.7	66.8	81.1	90.6	81.1	81.1	81.1	81.1	76.3	76.3
85°	52.4	33.4	33.4	47.7	52.4	47.7	52.4	47.7	47.7	47.7	42.9
87.5°	14.3	14.3	19.1	19.1	19.1	19.1	19.1	14.3	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)