

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: P842022

Luminaire Tested: **ARCH4-260-727-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842022
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: ARCH4-260-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA 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: 24724 lumens
Efficiency: N/A
Efficacy: 95.4 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): 259.2
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



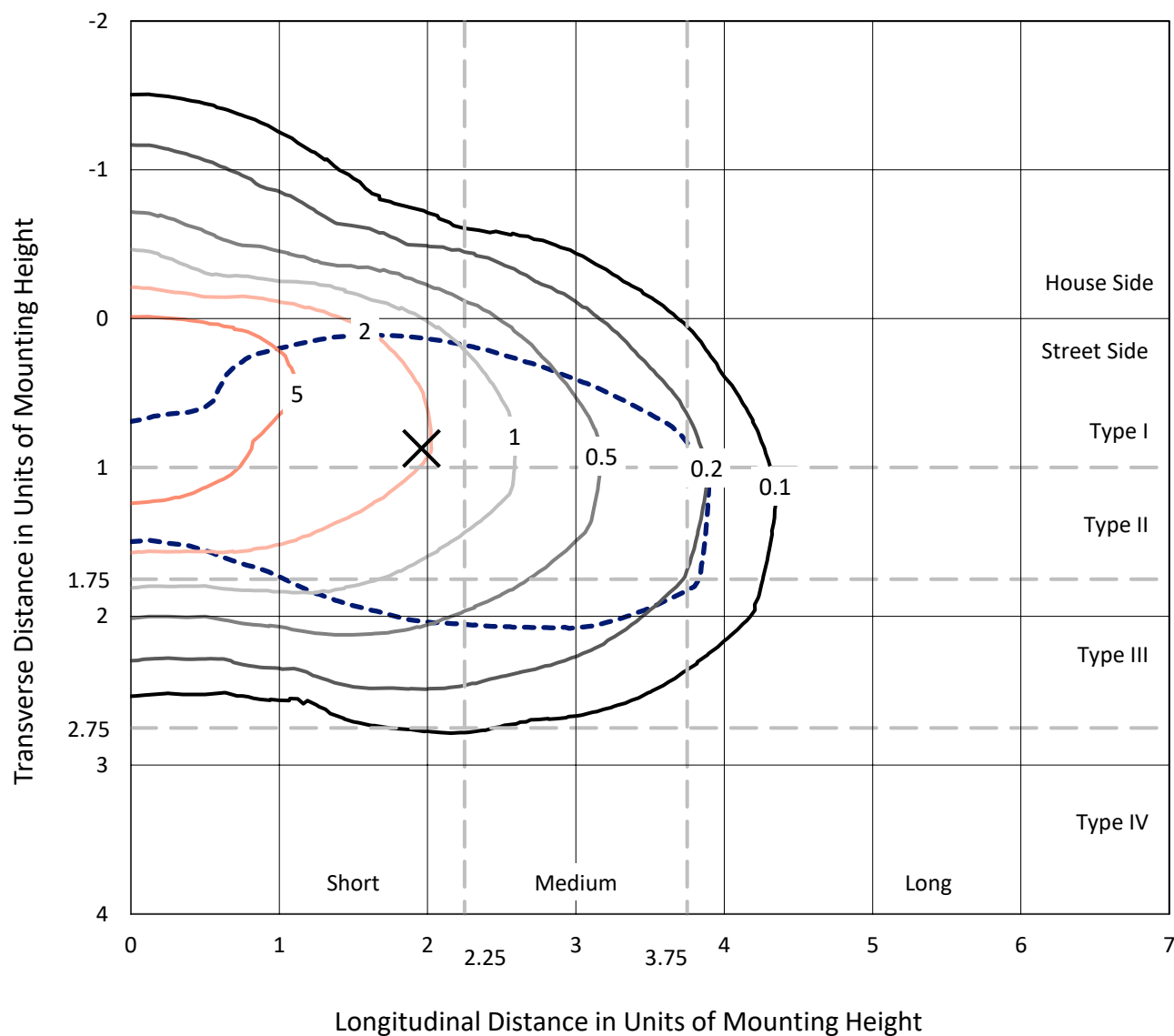
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

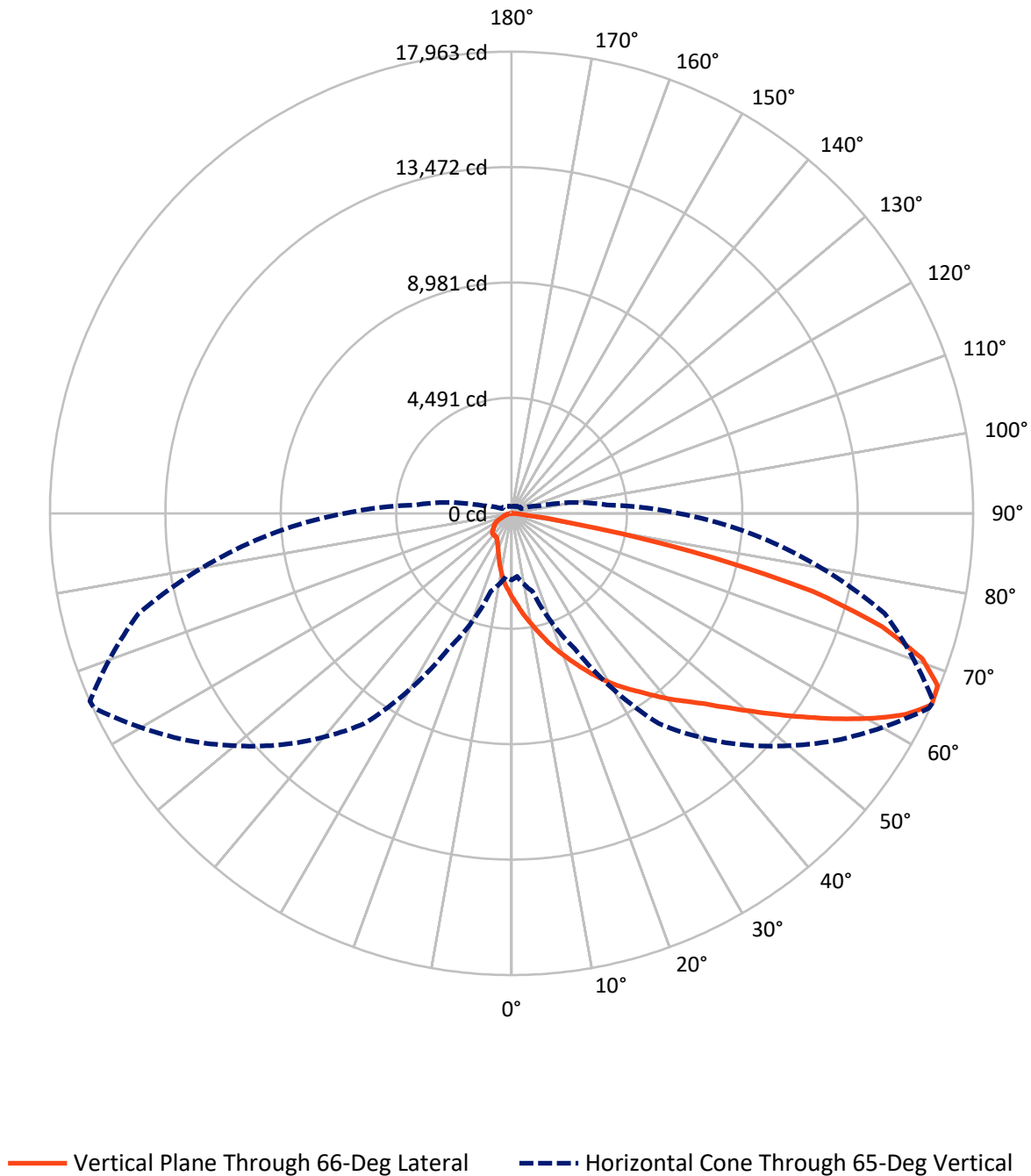


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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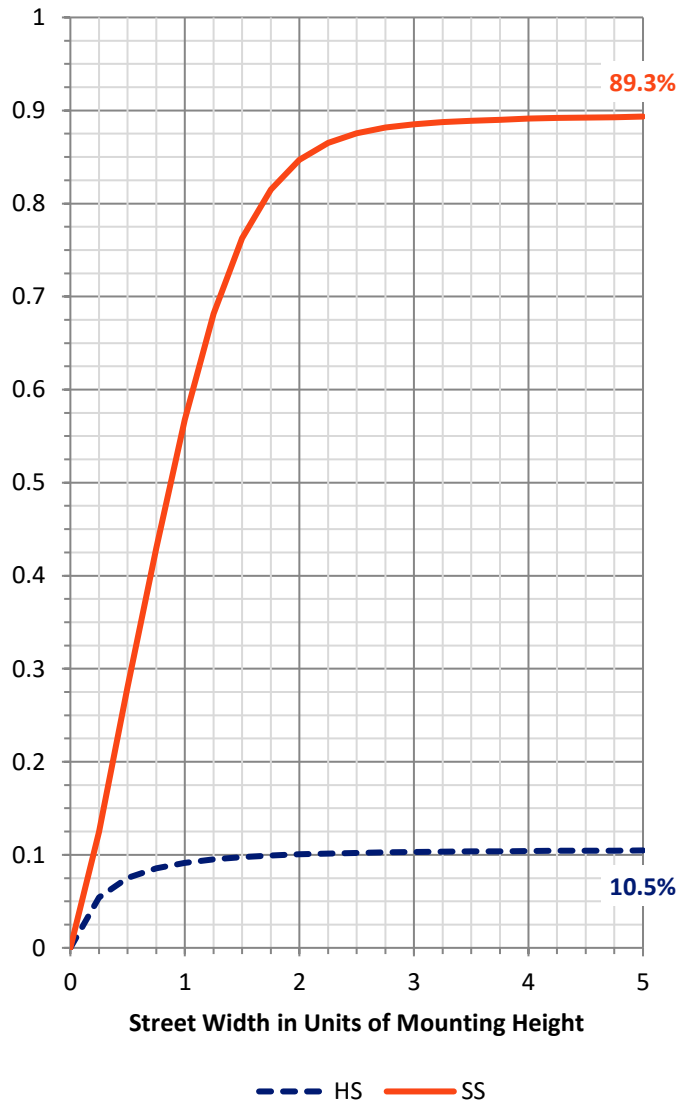
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2615.1	0.0	2615.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	22108.9	0.0	22108.9
	% Fixture	89.4	0.0	89.4
Total	Lumens	24724.0	0.0	24724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.0	1.3
10°-20°	1052.6	4.3
20°-30°	1904.5	7.7
30°-40°	2978.1	12.0
40°-50°	4517.8	18.3
50°-60°	5740.0	23.2
60°-70°	5363.4	21.7
70°-80°	2665.6	10.8
80°-90°	179.1	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°	24724.0	100.0
0°-180°	24724.0	100.0

Coefficient of Utilization



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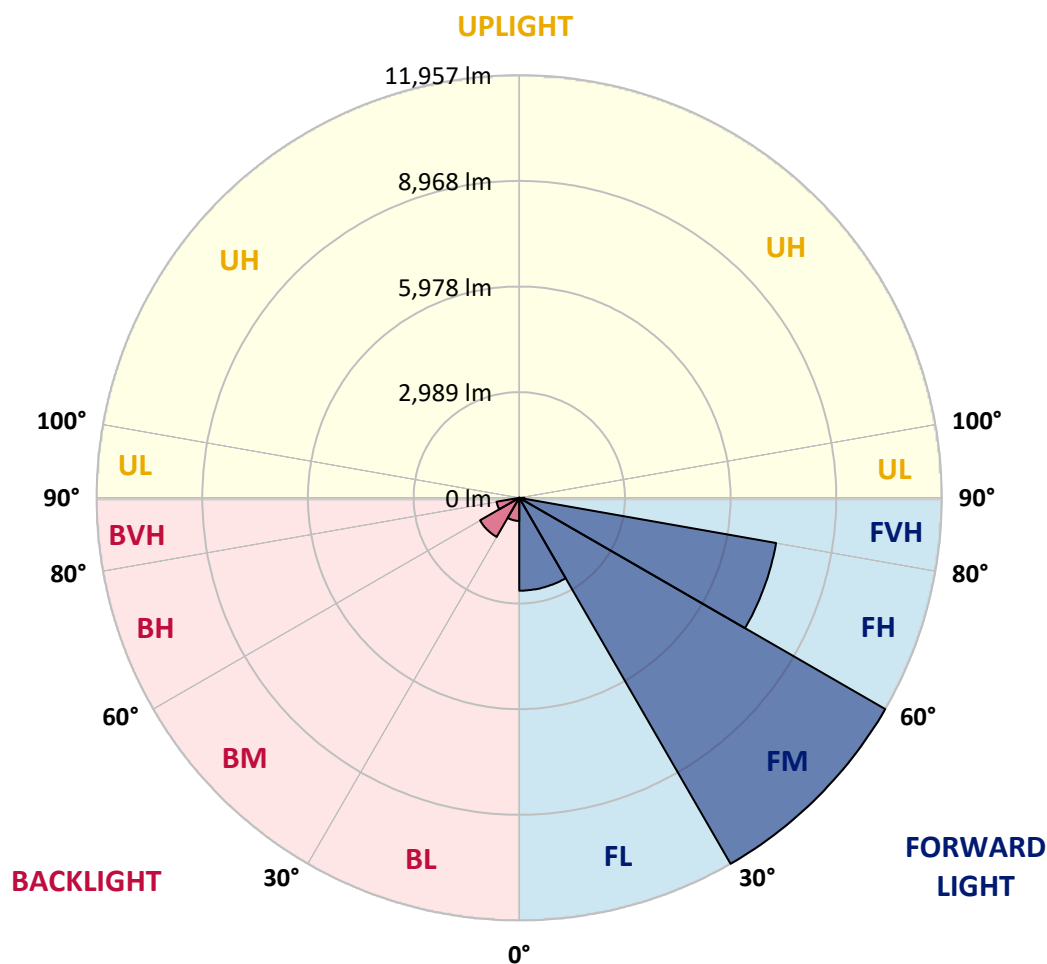
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2626.9	10.6			
FM	(30°-60°)	11956.8	48.4			
FH	(60°-80°)	7377.7	29.8			G3/7500
FVH	(80°-90°)	147.4	0.6			G2/225
BL	(0°-30°)	653.1	2.6	B2/1000		
BM	(30°-60°)	1279.1	5.2	B2/2500		
BH	(60°-80°)	651.3	2.6	B2/1000		G2/1000
BVH	(80°-90°)	31.7	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°	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1
2.5°	3821.8	3852.9	3868.4	3873.6	3754.3	3702.5	3650.6	3531.4	3505.4	3438.0	3349.9
5°	4495.9	4537.4	4527.0	4506.2	4361.1	4195.1	4060.3	3837.3	3801.0	3640.3	3443.2
7.5°	5159.6	5195.9	5185.6	5107.8	4947.0	4713.7	4490.7	4164.0	4112.1	3852.9	3536.5
10°	5714.5	5745.6	5740.4	5662.6	5470.8	5185.6	4915.9	4480.3	4418.1	4049.9	3614.3
12.5°	6170.8	6212.3	6207.1	6155.3	5984.1	5673.0	5367.1	4843.3	4765.5	4288.5	3723.2
15°	6528.6	6580.5	6580.5	6559.7	6440.5	6181.2	5833.8	5242.6	5149.3	4563.3	3858.1
17.5°	6746.4	6787.9	6824.2	6860.5	6777.5	6580.5	6264.2	5641.9	5543.4	4832.9	3998.1
20°	6860.5	6902.0	6927.9	7005.7	7021.2	6922.7	6673.8	6036.0	5932.3	5138.9	4158.8
22.5°	7047.2	7083.5	7088.7	7156.1	7187.2	7213.1	7057.5	6424.9	6341.9	5475.9	4340.3
25°	7358.3	7399.8	7384.2	7415.3	7420.5	7451.6	7436.1	6870.9	6787.9	5859.7	4558.1
27.5°	7757.6	7809.4	7799.1	7768.0	7721.3	7695.4	7762.8	7322.0	7244.2	6243.4	4781.1
30°	8188.0	8250.2	8234.7	8172.4	8048.0	7939.1	8032.4	7747.2	7674.6	6637.5	5030.0
32.5°	8623.6	8696.2	8691.0	8587.3	8374.7	8188.0	8328.0	8146.5	8094.7	7062.7	5299.6
35°	8908.8	9002.1	8991.8	8929.5	8654.7	8493.9	8665.1	8556.2	8519.9	7581.3	5688.6
37.5°	9370.3	9468.8	9380.7	9225.1	8908.8	8825.8	9033.2	9017.7	8991.8	8131.0	6098.2
40°	10490.4	10635.6	10402.2	9764.4	9245.8	9173.2	9468.8	9531.1	9505.1	8675.4	6466.4
42.5°	11662.3	11880.1	11517.1	10635.6	9857.7	9593.3	9945.9	10034.1	10002.9	9142.1	6798.3
45°	12372.7	12466.1	12103.1	11418.6	10941.5	10101.5	10454.1	10599.3	10573.3	9702.2	7223.5
47.5°	12953.5	12917.2	12502.4	12040.9	12129.0	10817.1	11029.7	11314.9	11294.1	10319.3	7690.2
50°	13078.0	12995.0	12829.1	12538.7	12772.0	11543.0	11636.4	12129.0	12108.3	11003.7	8162.1
52.5°	12201.6	12092.7	12543.9	12787.6	12709.8	12072.0	12305.3	13020.9	13010.6	11745.3	8613.2
55°	10013.3	9925.2	11138.6	12398.7	12642.4	12445.3	13046.9	13949.1	14006.2	12533.5	9022.9
57.5°	7876.9	7783.5	8976.2	11423.8	12393.5	12787.6	13912.8	15012.2	15084.8	13389.1	9411.8
60°	6279.7	6139.7	7052.4	9888.9	11926.8	13052.0	14747.7	16178.9	16189.3	14172.1	9650.3
62.5°	4267.7	4112.1	5123.3	7944.3	11143.8	13093.5	15390.7	17184.9	17226.4	14758.1	9691.8
65°	2592.8	2463.1	3147.6	5802.6	9987.4	12740.9	15401.1	17926.5	17962.8	15027.7	9442.9
67.5°	1503.8	1452.0	1799.4	3614.3	8068.7	11792.0	14752.9	17812.4	17879.8	14913.7	8877.7
70°	876.4	871.2	1000.8	1789.0	5693.7	9909.6	13306.1	16853.1	16951.6	14317.3	8011.7
72.5°	643.0	653.4	705.2	959.3	3298.0	7135.3	11268.2	14924.0	15074.4	13150.6	6777.5
75°	508.2	513.4	560.0	653.4	1732.0	4034.4	8442.1	11978.6	12097.9	11071.2	5294.5
77.5°	378.5	388.9	425.2	461.5	803.8	1851.2	4750.0	7379.0	7182.0	6077.5	2556.5
80°	274.8	300.8	316.3	331.9	425.2	715.6	1426.0	2572.0	2551.3	2655.0	1208.2
82.5°	176.3	197.1	212.6	223.0	254.1	342.2	425.2	575.6	622.3	1031.9	482.3
85°	77.8	88.2	98.5	119.3	108.9	119.3	176.3	114.1	98.5	155.6	88.2
87.5°	0.0	0.0	15.6	25.9	20.7	10.4	31.1	20.7	15.6	15.6	15.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1	3272.1
2.5°	3303.2	3246.2	3126.9	3012.8	2945.4	2857.2	2779.5	2706.9	2701.7	2680.9	2644.6
5°	3344.7	3235.8	3012.8	2800.2	2639.4	2468.3	2323.1	2209.0	2167.6	2136.4	2095.0
7.5°	3386.2	3215.0	2883.2	2572.0	2317.9	2079.4	1908.3	1752.7	1706.0	1664.6	1638.6
10°	3401.7	3178.7	2732.8	2317.9	1986.1	1732.0	1550.5	1436.4	1394.9	1374.2	1358.6
12.5°	3448.4	3158.0	2592.8	2079.4	1695.7	1462.3	1332.7	1265.3	1249.7	1234.2	1218.6
15°	3510.6	3158.0	2452.8	1846.1	1467.5	1280.8	1203.0	1156.4	1146.0	1140.8	1130.5
17.5°	3578.0	3158.0	2317.9	1649.0	1301.6	1161.6	1104.5	1078.6	1073.4	1068.2	1063.0
20°	3671.4	3163.2	2172.7	1477.9	1182.3	1073.4	1026.7	995.6	990.4	985.3	985.3
22.5°	3764.7	3173.6	2032.7	1348.2	1104.5	1006.0	949.0	917.8	907.5	907.5	907.5
25°	3884.0	3204.7	1903.1	1239.3	1037.1	943.8	871.2	845.2	840.1	840.1	834.9
27.5°	4024.0	3241.0	1789.0	1156.4	969.7	871.2	798.6	772.6	762.3	762.3	757.1
30°	4174.4	3277.3	1695.7	1094.2	902.3	798.6	731.2	700.1	689.7	694.9	689.7
32.5°	4340.3	3329.1	1623.1	1052.7	840.1	736.3	674.1	637.8	632.6	632.6	627.5
35°	4620.3	3474.3	1612.7	1031.9	788.2	689.7	627.5	591.2	586.0	586.0	580.8
37.5°	4921.1	3640.3	1659.4	1021.6	746.7	648.2	591.2	554.9	549.7	549.7	549.7
40°	5175.2	3764.7	1711.2	1021.6	720.8	611.9	560.0	528.9	528.9	528.9	528.9
42.5°	5346.3	3775.1	1700.9	1021.6	700.1	586.0	539.3	508.2	508.2	513.4	508.2
45°	5600.4	3826.9	1659.4	1006.0	684.5	565.2	518.6	492.6	487.4	492.6	492.6
47.5°	5901.2	3920.3	1617.9	943.8	679.3	544.5	503.0	471.9	466.7	471.9	466.7
50°	6186.4	4003.2	1597.2	860.8	668.9	523.7	482.3	451.1	446.0	451.1	446.0
52.5°	6424.9	4039.5	1560.9	803.8	643.0	503.0	461.5	430.4	420.0	425.2	425.2
55°	6616.8	4029.2	1509.0	757.1	596.3	482.3	435.6	409.7	394.1	394.1	388.9
57.5°	6793.1	4034.4	1462.3	710.4	544.5	451.1	414.8	383.7	363.0	357.8	352.6
60°	6860.5	4008.4	1379.4	648.2	492.6	425.2	388.9	352.6	331.9	326.7	321.5
62.5°	6767.2	3915.1	1270.5	539.3	446.0	394.1	363.0	326.7	305.9	300.8	295.6
65°	6502.7	3738.8	1104.5	425.2	404.5	357.8	331.9	305.9	280.0	269.6	264.5
67.5°	6051.5	3484.7	897.1	342.2	357.8	326.7	311.1	280.0	248.9	238.5	233.4
70°	5408.5	3147.6	674.1	290.4	316.3	290.4	280.0	248.9	223.0	212.6	207.4
72.5°	4506.2	2603.1	471.9	248.9	274.8	254.1	243.7	223.0	197.1	181.5	181.5
75°	3406.9	1866.8	311.1	212.6	228.2	217.8	202.2	186.7	171.1	160.8	155.6
77.5°	1467.5	726.0	191.9	160.8	186.7	181.5	160.8	150.4	145.2	134.8	134.8
80°	632.6	295.6	119.3	119.3	134.8	129.6	124.5	114.1	114.1	108.9	103.7
82.5°	233.4	119.3	72.6	88.2	98.5	88.2	88.2	88.2	88.2	83.0	83.0
85°	57.0	36.3	36.3	51.9	57.0	51.9	57.0	51.9	51.9	51.9	46.7
87.5°	15.6	15.6	20.7	20.7	20.7	20.7	20.7	15.6	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)