

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: P381190

Luminaire Tested: **USSL-PA2A-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA2A-740-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 720mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12487 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 112
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: 28.75 FT

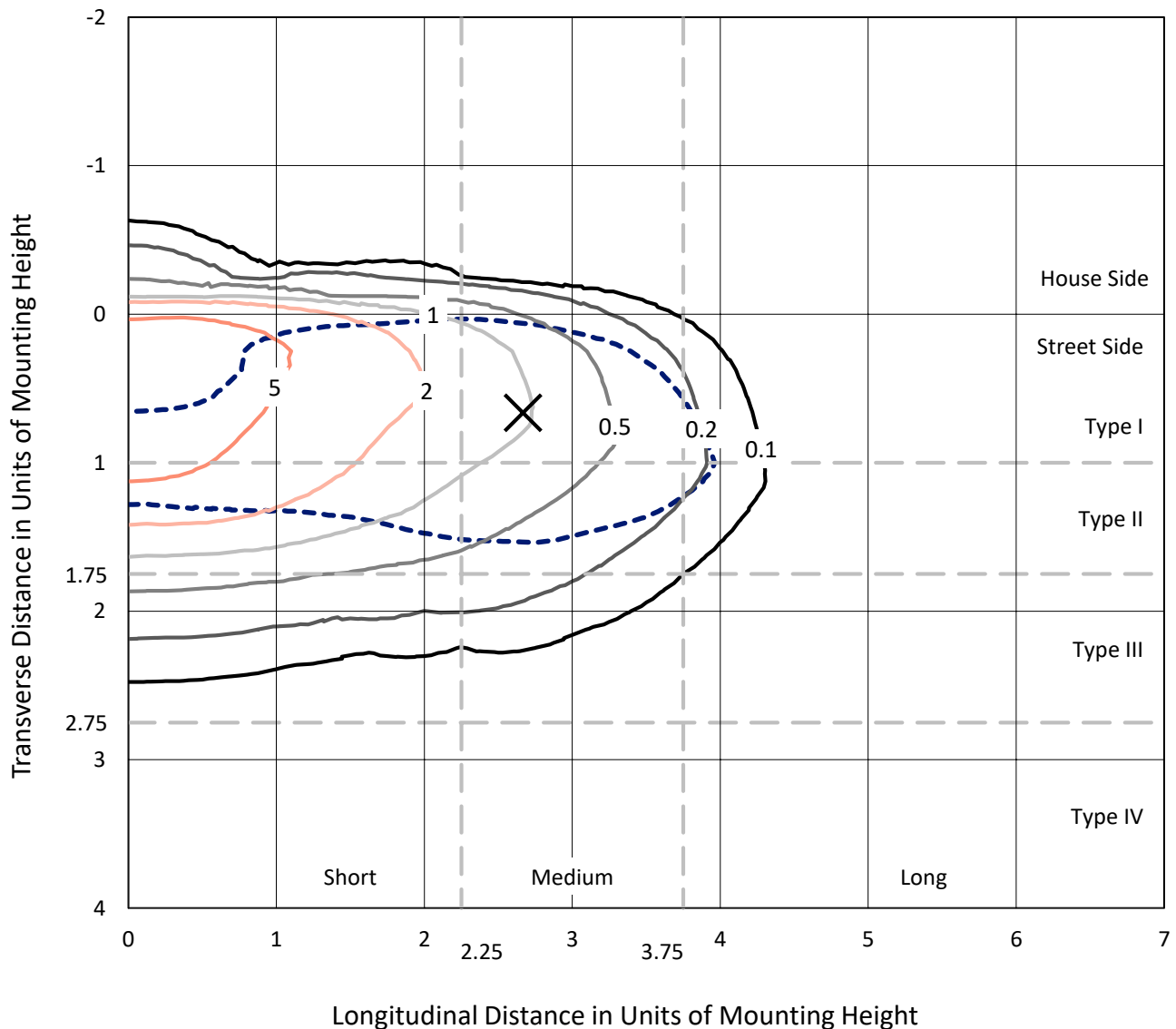


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

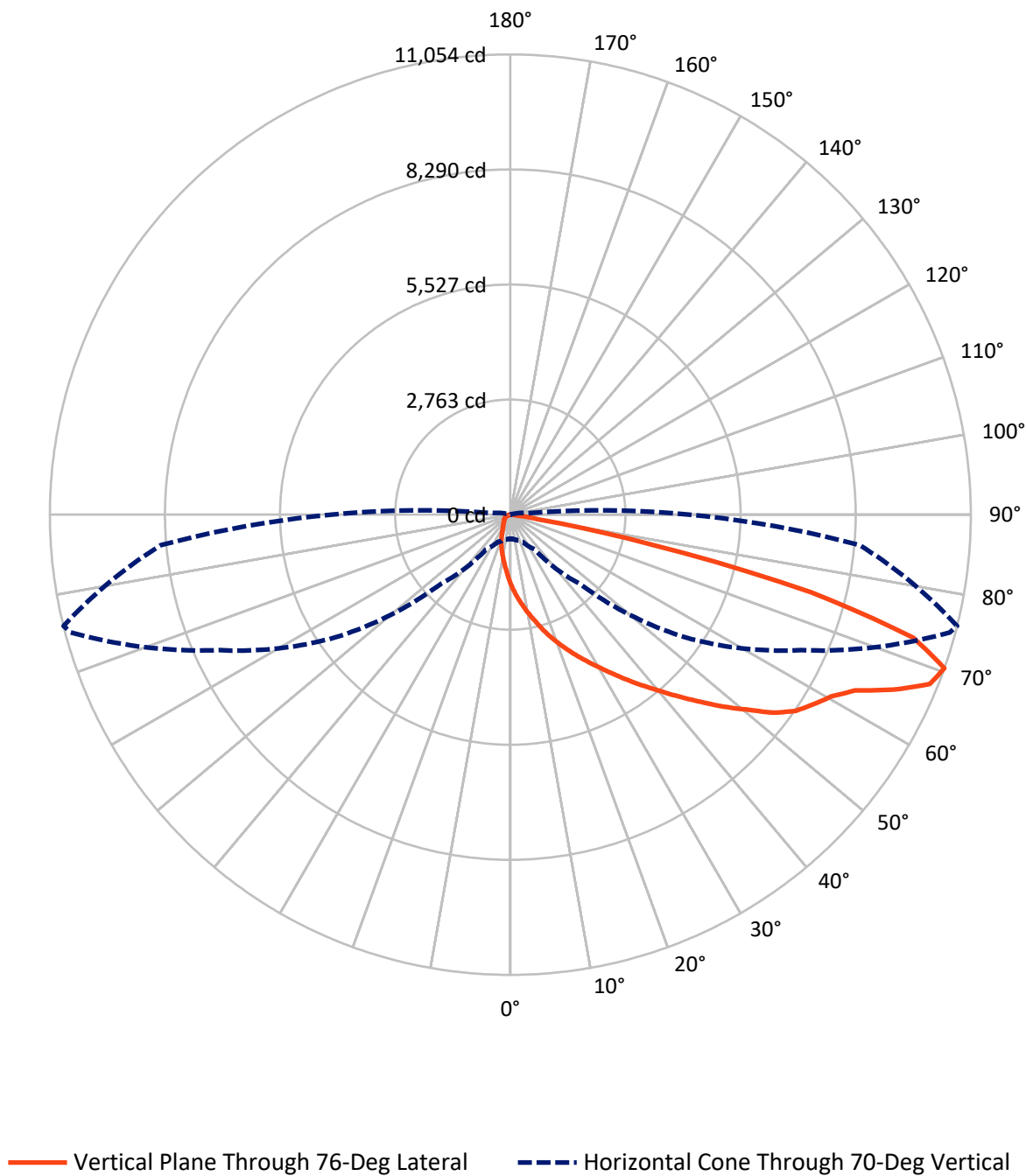


Based on 20 foot mounting height. Maximum calculated value = 8 fc
Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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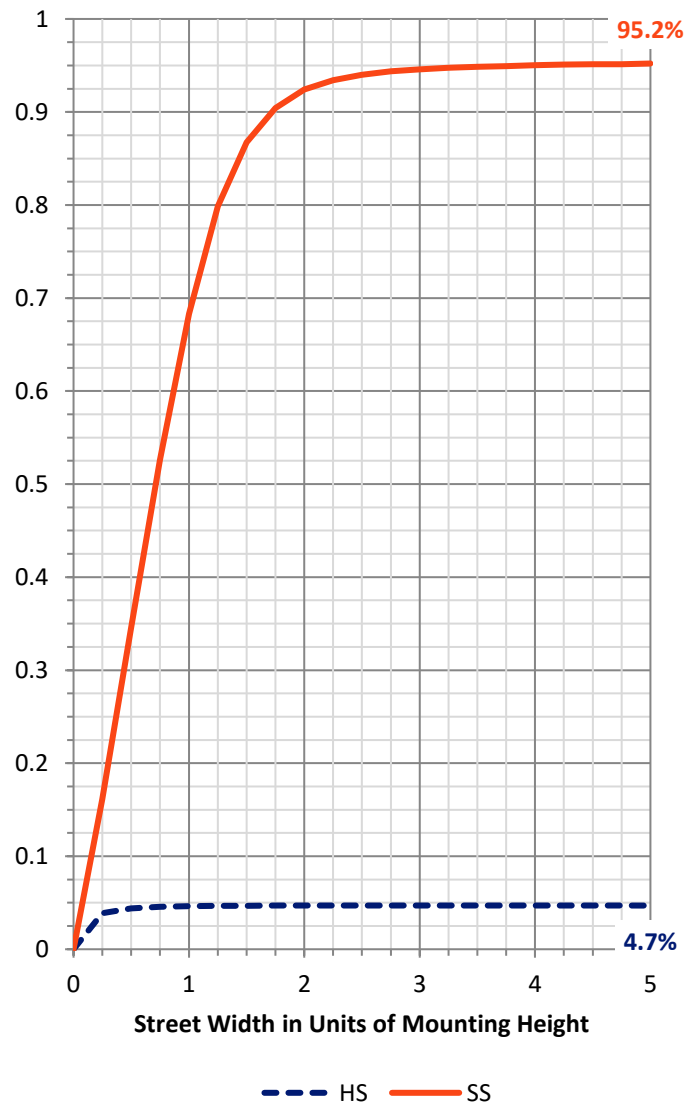
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	588.9	0.0	588.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	11898.1	0.0	11898.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	12487.0	0.0	12487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	1.3
10°-20°	508.2	4.1
20°-30°	946.5	7.6
30°-40°	1674.1	13.4
40°-50°	2560.1	20.5
50°-60°	2902.6	23.2
60°-70°	2488.2	19.9
70°-80°	1205.1	9.7
80°-90°	44.7	0.4
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°	12487.0	100.0
0°-180°	12487.0	100.0

Coefficient of Utilization



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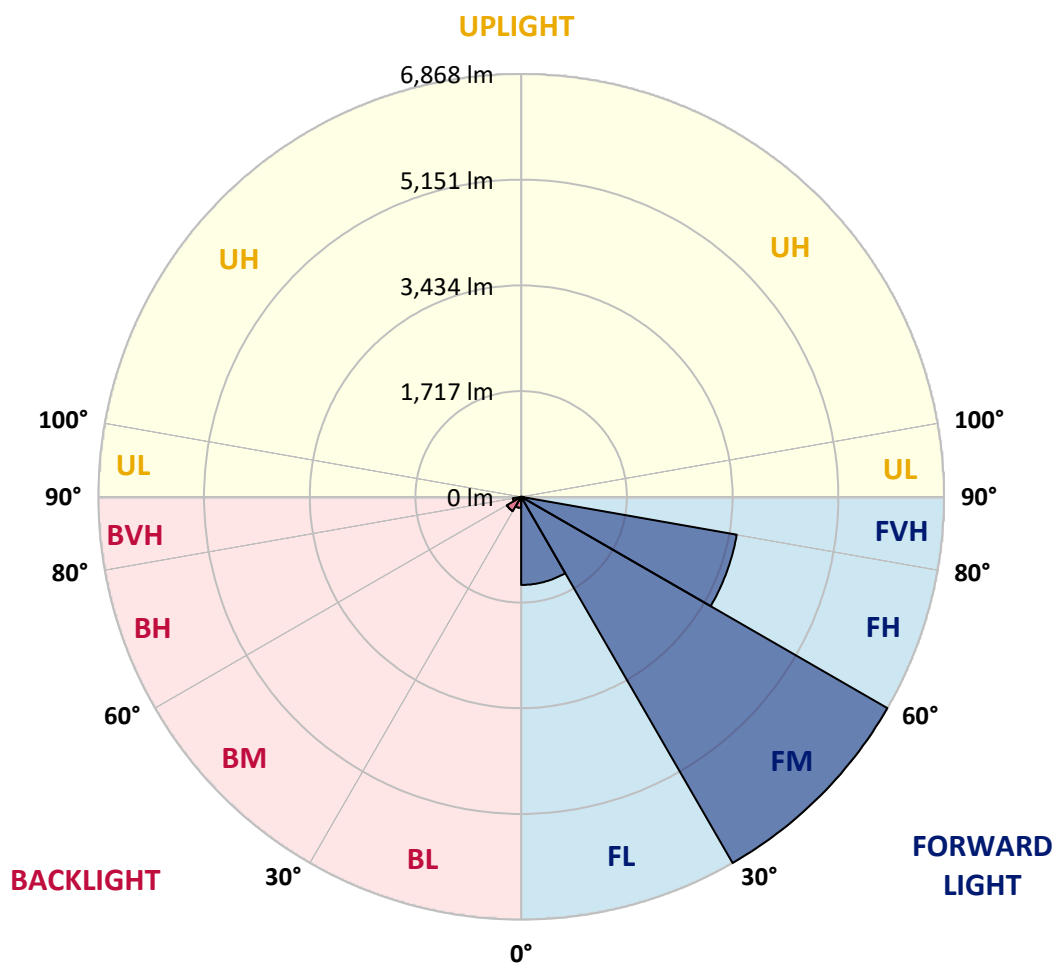
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1431.5	11.5			
FM	(30°-60°)	6868.0	55.0			
FH	(60°-80°)	3554.7	28.5			G2/5000
FVH	(80°-90°)	43.9	0.4			G1/100
BL	(0°-30°)	180.7	1.4	B1/500		
BM	(30°-60°)	268.8	2.2	B1/1000		
BH	(60°-80°)	138.7	1.1	B1/500		G1/500
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5
2.5°	2284.8	2272.3	2259.8	2212.0	2168.3	2128.8	2054.0	1956.3	1869.0	1850.3	1748.4
5°	2683.9	2669.4	2650.6	2602.8	2546.7	2480.2	2370.0	2220.3	2066.5	2033.2	1844.0
7.5°	2954.2	2941.7	2914.7	2891.8	2835.7	2771.2	2648.6	2473.9	2261.9	2220.3	1954.2
10°	3139.2	3130.9	3126.7	3108.0	3066.4	3014.5	2891.8	2708.9	2459.4	2411.6	2070.6
12.5°	3205.7	3205.7	3226.5	3257.7	3263.9	3247.3	3135.0	2952.1	2667.3	2617.4	2207.8
15°	3116.3	3126.7	3172.5	3272.2	3376.2	3444.8	3374.1	3203.6	2896.0	2841.9	2370.0
17.5°	3091.4	3101.8	3133.0	3220.3	3359.6	3542.5	3577.9	3446.9	3112.2	3066.4	2536.3
20°	3162.1	3172.5	3199.5	3274.3	3380.4	3565.4	3713.0	3681.8	3340.9	3293.0	2704.7
22.5°	3330.5	3336.7	3336.7	3394.9	3488.5	3625.7	3798.2	3904.2	3575.8	3523.8	2871.0
25°	3692.2	3679.7	3629.8	3600.7	3661.0	3773.3	3906.3	4099.7	3837.7	3767.0	3049.8
27.5°	4166.2	4207.8	4087.2	3947.9	3902.2	3966.6	4058.1	4272.2	4091.3	4016.5	3212.0
30°	4808.6	4791.9	4634.0	4434.4	4236.9	4214.0	4245.2	4419.8	4345.0	4274.3	3392.8
32.5°	5336.6	5367.8	5201.5	4958.3	4663.1	4523.8	4490.5	4596.5	4615.2	4569.5	3607.0
35°	5879.2	5912.5	5750.3	5480.1	5128.7	4895.9	4800.3	4814.8	4949.9	4891.7	3831.5
37.5°	6365.7	6394.8	6234.7	5958.2	5606.9	5322.1	5184.9	5072.6	5274.3	5222.3	4068.5
40°	6735.8	6739.9	6631.8	6384.4	6051.8	5756.6	5600.7	5380.3	5617.3	5581.9	4315.9
42.5°	6997.7	7006.0	6927.0	6715.0	6407.3	6132.9	6006.0	5744.1	6012.3	5981.1	4602.8
45°	7120.4	7134.9	7126.6	6931.2	6675.5	6438.5	6396.9	6130.8	6444.7	6415.6	4933.3
47.5°	7003.9	7003.9	7110.0	7082.9	6848.0	6690.0	6737.8	6534.1	6914.5	6887.5	5270.1
50°	6519.5	6525.8	6742.0	7051.8	6914.5	6879.2	7028.9	6929.1	7340.7	7357.4	5673.4
52.5°	5247.2	5236.8	5966.5	6561.1	6868.8	6964.4	7297.1	7332.4	7852.1	7902.0	6074.7
55°	3920.9	3914.6	4613.2	5692.1	6548.7	6920.8	7446.8	7692.1	8288.7	8319.9	6374.0
57.5°	3103.9	3087.2	3471.8	4588.2	5825.2	6725.4	7453.0	7760.7	8532.0	8586.0	6665.1
60°	2386.6	2372.1	2659.0	3413.6	4800.3	6205.6	7274.2	7764.8	8766.9	8862.5	7055.9
62.5°	1706.8	1723.4	1943.8	2449.0	3692.2	5471.8	7041.4	7823.0	9184.7	9292.8	7611.0
65°	1151.7	1143.4	1326.4	1667.3	2625.7	4484.3	6683.8	7945.7	9937.3	10126.5	8276.2
67.5°	800.4	806.6	889.8	1085.2	1667.3	3442.7	6089.2	8014.3	10714.8	10862.4	8741.9
70°	577.9	586.3	632.0	729.7	1018.7	2334.6	5147.4	7700.4	10924.8	11053.7	8417.6
72.5°	380.4	397.1	465.7	517.7	650.7	1461.5	3792.0	6633.9	10020.5	10116.1	7062.1
75°	205.8	210.0	299.4	386.7	463.6	910.6	2261.9	4473.9	7496.6	7465.5	4656.8
77.5°	160.1	166.3	185.0	276.5	311.8	501.0	893.9	2020.7	3550.8	3455.2	1588.3
80°	97.7	101.9	128.9	164.2	218.3	291.1	261.9	548.8	721.4	675.7	232.8
82.5°	58.2	62.4	76.9	137.2	172.6	137.2	91.5	133.1	135.1	133.1	58.2
85°	10.4	10.4	54.1	95.6	91.5	39.5	54.1	43.7	39.5	41.6	12.5
87.5°	0.0	0.0	20.8	29.1	41.6	14.6	20.8	10.4	10.4	10.4	6.2
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°	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5	1671.5
2.5°	1686.0	1615.3	1469.8	1343.0	1216.2	1122.6	1051.9	979.2	954.2	923.0	906.4
5°	1715.1	1575.8	1286.9	1056.1	860.7	711.0	615.4	557.2	519.7	492.7	486.5
7.5°	1758.8	1544.7	1139.3	827.4	613.3	463.6	384.6	345.1	324.3	311.8	307.7
10°	1810.8	1517.6	993.7	644.5	432.4	326.4	282.7	266.1	257.8	253.6	251.6
12.5°	1883.5	1507.2	871.1	496.9	326.4	268.2	245.3	234.9	228.7	222.4	220.4
15°	1979.1	1511.4	758.8	384.6	270.3	239.1	220.4	210.0	201.7	195.4	195.4
17.5°	2078.9	1517.6	648.6	311.8	245.3	218.3	197.5	182.9	176.7	170.5	168.4
20°	2172.5	1515.5	542.6	266.1	222.4	195.4	174.6	160.1	149.7	143.4	143.4
22.5°	2261.9	1503.1	442.8	239.1	203.7	172.6	149.7	135.1	126.8	120.6	120.6
25°	2357.5	1478.1	361.7	218.3	180.9	151.8	128.9	114.3	108.1	101.9	101.9
27.5°	2432.4	1436.5	295.2	199.6	160.1	131.0	110.2	97.7	91.5	87.3	87.3
30°	2513.4	1376.3	245.3	178.8	139.3	112.3	93.6	83.2	76.9	74.8	74.8
32.5°	2602.8	1309.7	210.0	158.0	118.5	95.6	79.0	72.8	66.5	64.4	64.4
35°	2706.8	1251.5	189.2	137.2	103.9	81.1	68.6	62.4	58.2	58.2	58.2
37.5°	2825.3	1191.2	170.5	120.6	89.4	68.6	58.2	56.1	54.1	52.0	52.0
40°	2954.2	1126.8	153.8	106.0	76.9	58.2	49.9	49.9	47.8	47.8	47.8
42.5°	3099.7	1070.7	139.3	93.6	66.5	49.9	43.7	43.7	41.6	41.6	41.6
45°	3257.7	1018.7	126.8	83.2	58.2	43.7	39.5	37.4	35.3	35.3	35.3
47.5°	3444.8	989.6	116.4	72.8	49.9	37.4	33.3	31.2	29.1	27.0	27.0
50°	3683.9	1002.0	106.0	60.3	43.7	31.2	27.0	24.9	22.9	20.8	20.8
52.5°	3873.1	995.8	91.5	52.0	35.3	24.9	20.8	18.7	16.6	14.6	14.6
55°	4010.3	970.9	79.0	43.7	27.0	20.8	16.6	12.5	10.4	10.4	10.4
57.5°	4145.4	945.9	66.5	35.3	20.8	14.6	10.4	8.3	8.3	8.3	8.3
60°	4355.4	910.6	58.2	29.1	16.6	10.4	6.2	6.2	4.2	4.2	4.2
62.5°	4611.1	866.9	47.8	24.9	12.5	8.3	4.2	4.2	0.0	0.0	0.0
65°	4891.7	790.0	39.5	18.7	10.4	6.2	4.2	0.0	0.0	0.0	0.0
67.5°	4827.3	634.1	33.3	12.5	8.3	4.2	2.1	0.0	0.0	0.0	0.0
70°	4270.1	428.3	27.0	10.4	6.2	4.2	2.1	0.0	0.0	0.0	0.0
72.5°	3345.0	253.6	18.7	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
75°	2141.3	126.8	12.5	6.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	717.2	62.4	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	101.9	20.8	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	8.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	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)