

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: P842083

Luminaire Tested: **ARCH4-270-722-U-T2U-HSS**

Issue Date: 5/27/2024

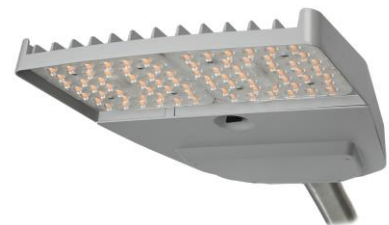
Test Information

Test Method: LM-79-08
Report Number: P842083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-722-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23520 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 269
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



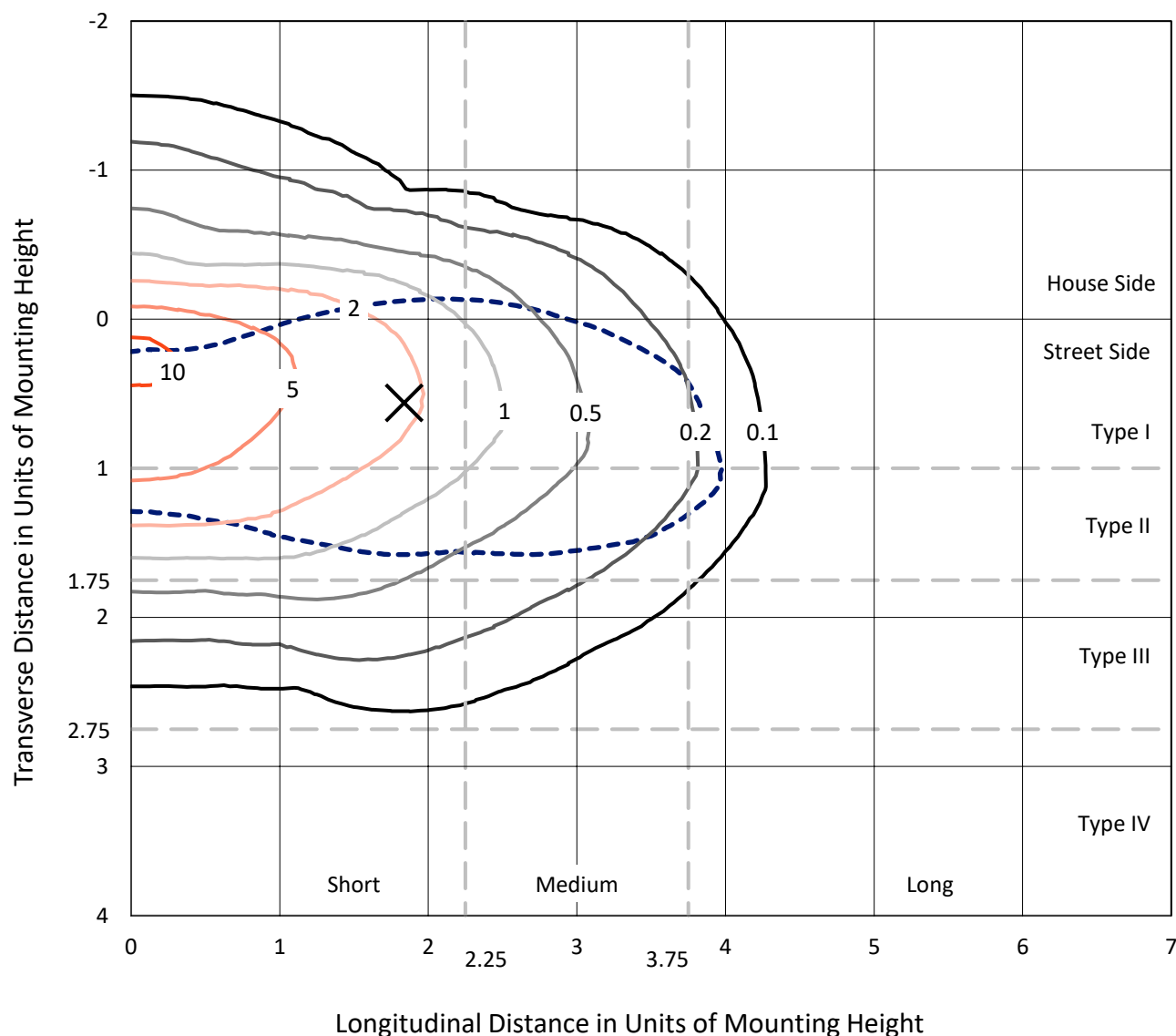
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

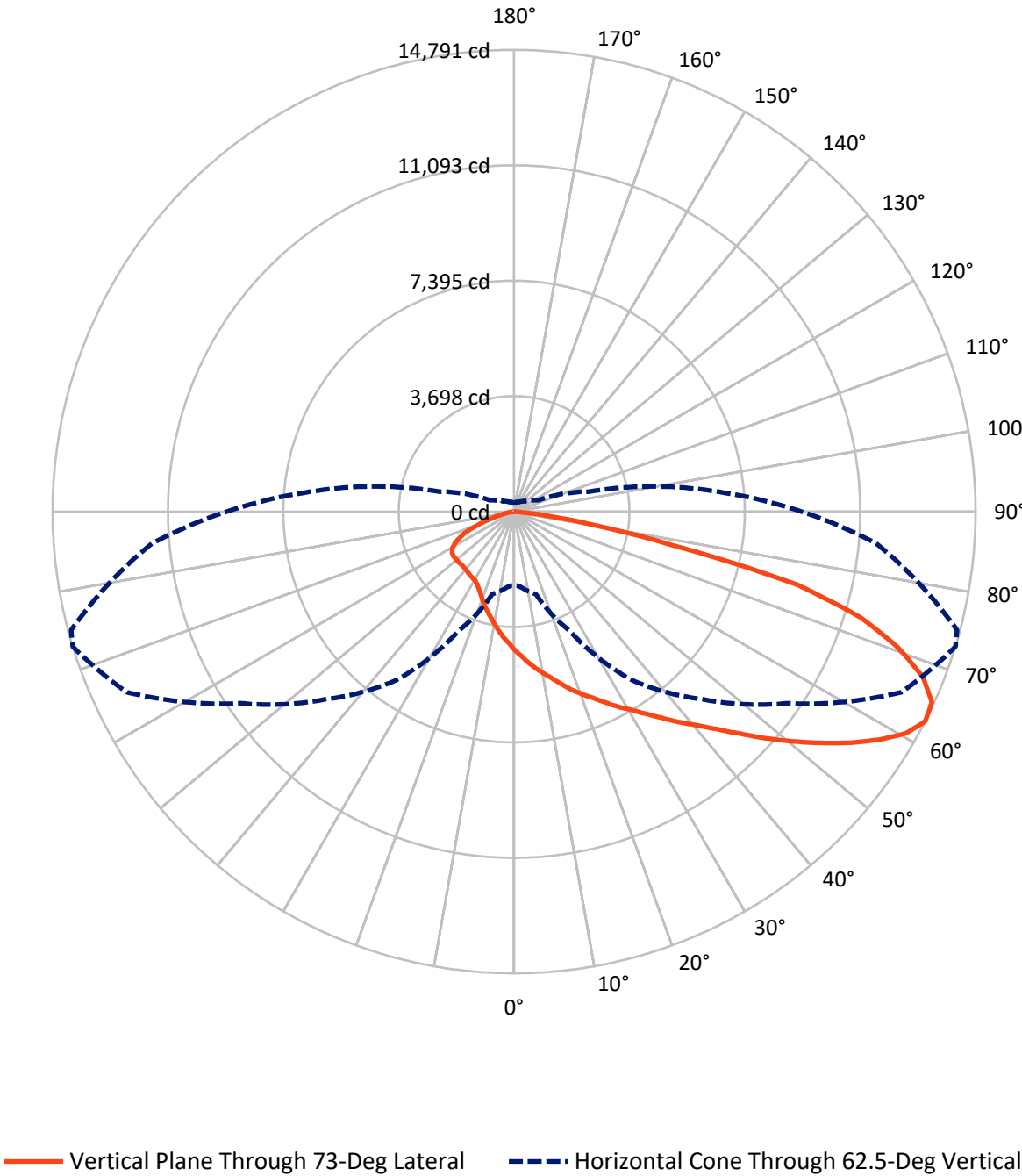


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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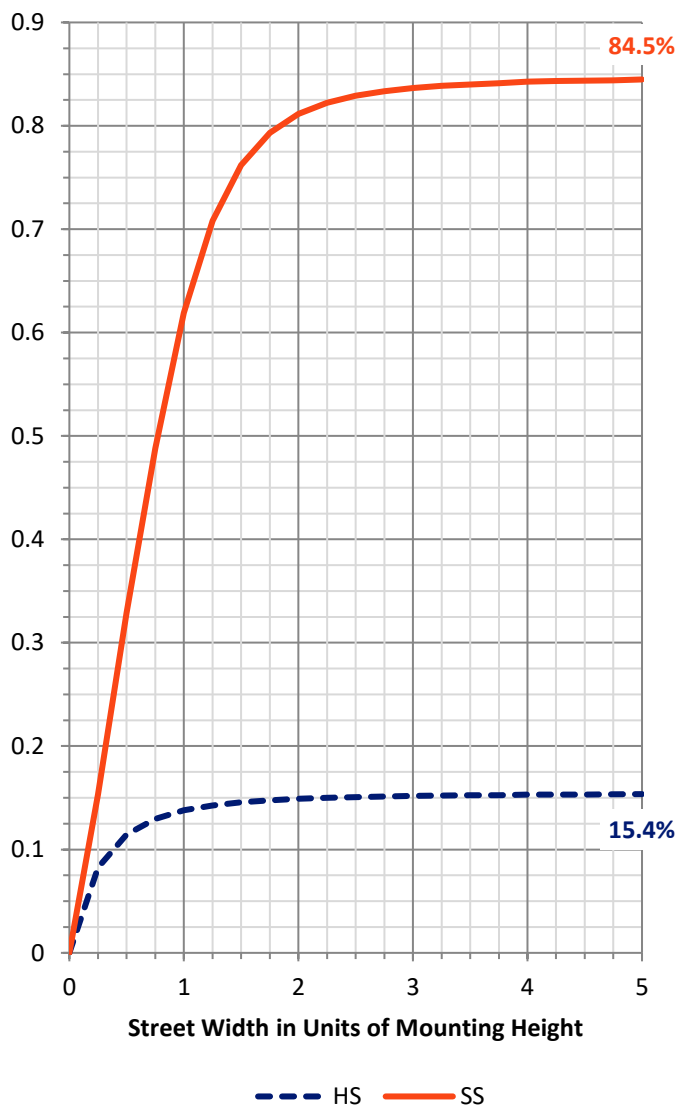
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3645.9	0.0	3645.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	19874.1	0.0	19874.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	23520.0	0.0	23520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.2	1.8
10°-20°	1298.3	5.5
20°-30°	2161.0	9.2
30°-40°	3260.6	13.9
40°-50°	4557.5	19.4
50°-60°	5034.1	21.4
60°-70°	4385.3	18.6
70°-80°	2215.2	9.4
80°-90°	177.8	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°	23520.0	100.0
0°-180°	23520.0	100.0

Coefficient of Utilization



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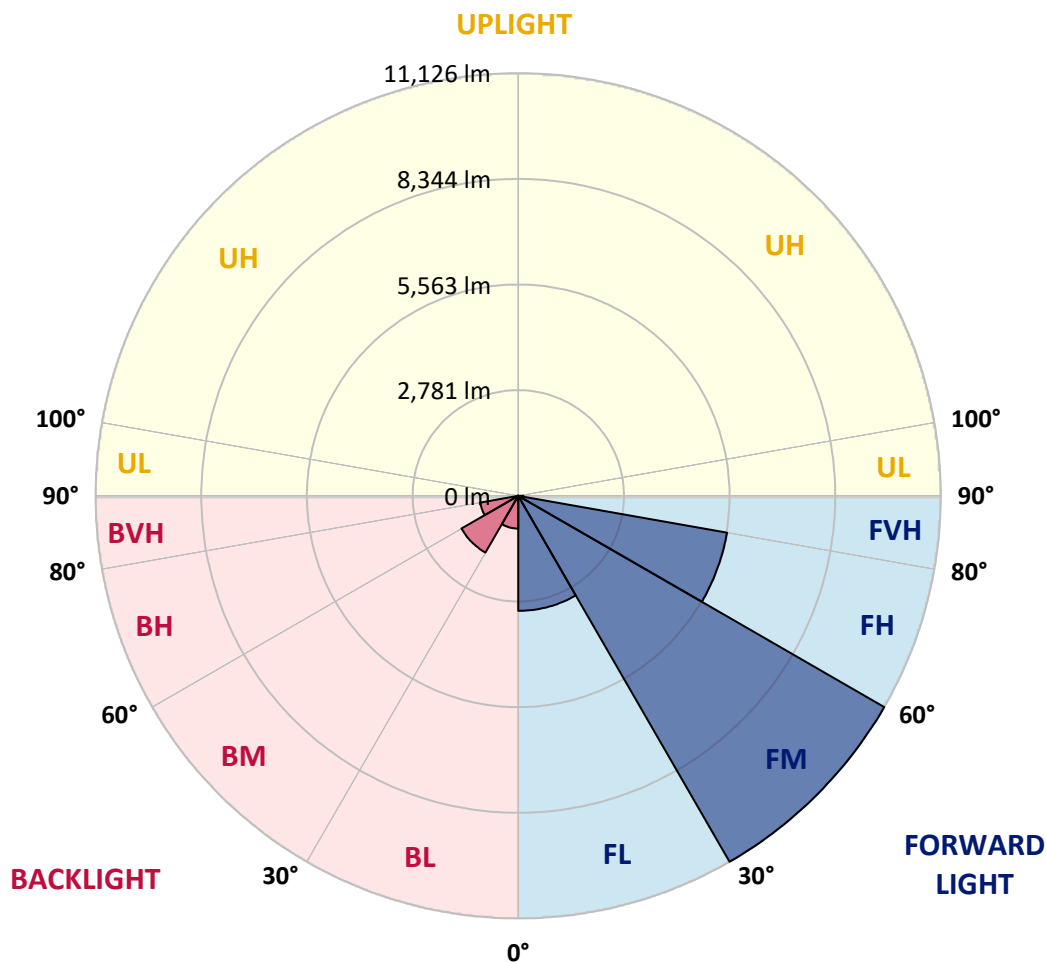
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3027.7	12.9			
FM	(30°-60°)	11125.8	47.3			
FH	(60°-80°)	5582.9	23.7			G3/7500
FVH	(80°-90°)	137.6	0.6			G2/225
BL	(0°-30°)	861.8	3.7	B2/1000		
BM	(30°-60°)	1726.3	7.3	B2/2500		
BH	(60°-80°)	1017.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	40.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6
2.5°	5068.6	5124.9	5094.2	5114.7	5012.2	4945.6	4868.7	4720.1	4638.1	4627.8	4530.4
5°	5811.7	5873.2	5821.9	5806.5	5627.2	5473.4	5299.2	5037.8	4863.6	4832.8	4617.6
7.5°	6554.8	6611.2	6549.7	6503.5	6262.7	5991.0	5734.8	5350.4	5078.8	5027.6	4689.3
10°	7077.5	7128.8	7082.6	7036.5	6785.4	6508.7	6144.8	5642.5	5273.6	5191.6	4735.4
12.5°	7472.1	7502.9	7482.4	7441.4	7205.6	6908.4	6559.9	5970.5	5493.9	5391.4	4807.2
15°	7795.0	7846.3	7820.6	7789.9	7564.4	7267.1	6934.0	6313.9	5750.2	5622.0	4914.8
17.5°	8010.3	8046.1	8051.3	8051.3	7851.4	7559.3	7236.4	6626.5	6006.4	5842.4	5017.3
20°	8107.6	8148.6	8174.3	8215.3	8051.3	7800.1	7472.1	6893.0	6247.3	6062.8	5114.7
22.5°	8153.8	8189.6	8256.3	8348.5	8215.3	8005.1	7702.8	7139.0	6488.2	6293.4	5227.4
25°	8189.6	8235.8	8333.1	8507.4	8415.1	8235.8	7974.4	7420.9	6775.2	6575.3	5391.4
27.5°	8287.0	8343.4	8435.6	8645.8	8533.0	8445.9	8261.4	7723.3	7077.5	6872.5	5591.3
30°	8625.3	8671.4	8666.3	8799.5	8661.1	8635.5	8507.4	8015.4	7369.6	7164.6	5827.0
32.5°	9240.2	9286.4	9173.6	9122.4	8820.0	8825.1	8773.9	8328.0	7718.1	7508.0	6098.7
35°	9901.4	9952.6	9804.0	9716.9	9209.5	9060.9	9086.5	8717.5	8107.6	7897.5	6436.9
37.5°	10490.7	10552.2	10424.1	10296.0	9783.5	9440.1	9435.0	9153.1	8553.5	8338.3	6811.0
40°	10813.6	10885.3	10962.2	10890.5	10352.4	9973.1	9809.1	9599.0	8994.2	8773.9	7215.9
42.5°	10967.3	11167.2	11305.6	11259.5	10818.7	10434.4	10239.6	10065.4	9532.4	9317.1	7697.6
45°	10536.9	10542.0	10834.1	11085.2	11003.2	10747.0	10711.1	10588.1	10147.4	9942.4	8240.9
47.5°	9998.7	9957.7	10162.7	10608.6	10839.2	10905.8	11116.0	11167.2	10849.5	10644.5	8794.4
50°	8707.3	8732.9	9399.1	10039.7	10490.7	10921.2	11403.0	11761.7	11572.1	11377.3	9378.6
52.5°	7082.6	7144.1	7907.8	9317.1	10029.5	10767.5	11572.1	12356.2	12310.1	12125.6	9962.9
55°	5678.4	5775.8	6585.5	8112.8	9440.1	10424.1	11643.8	12899.4	13073.7	12904.6	10536.9
57.5°	4340.8	4443.3	5124.9	6693.2	8686.8	9865.5	11592.6	13376.1	13786.1	13678.4	11064.7
60°	3269.7	3372.2	3807.8	5427.3	7743.8	9240.2	11336.3	13688.7	14426.7	14313.9	11449.1
62.5°	2342.1	2424.1	2747.0	4222.9	6595.8	8497.1	10706.0	13693.8	14790.5	14698.3	11633.6
65°	1686.1	1686.1	1947.5	3013.5	5519.5	7605.4	9752.7	13063.4	14713.7	14688.0	11505.5
67.5°	1214.6	1224.9	1435.0	2106.3	4402.3	6524.0	8517.6	11941.1	14119.2	14247.3	11044.2
70°	861.0	886.6	984.0	1470.9	3326.1	5150.6	7195.4	10470.2	13048.1	13273.6	10152.5
72.5°	666.2	681.6	748.2	1025.0	2429.2	3828.3	5734.8	8830.2	11618.2	11874.5	8937.9
75°	512.5	527.9	579.1	753.4	1742.5	2685.5	4074.3	6852.0	9368.4	9824.5	7180.0
77.5°	374.1	394.6	430.5	548.4	1014.7	1706.6	2470.2	3853.9	5171.1	5386.3	3761.7
80°	174.2	199.9	251.1	353.6	548.4	804.6	876.4	1486.2	2485.6	2598.3	2039.7
82.5°	97.4	123.0	143.5	215.2	276.7	287.0	297.2	374.1	937.9	1035.2	855.9
85°	46.1	61.5	66.6	92.2	92.2	82.0	97.4	71.7	153.7	184.5	179.4
87.5°	0.0	5.1	10.2	25.6	20.5	15.4	15.4	15.4	15.4	20.5	15.4
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°	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6	4453.6
2.5°	4484.3	4417.7	4263.9	4130.7	4043.6	3966.7	3864.2	3818.1	3736.1	3751.4	3705.3
5°	4509.9	4386.9	4115.3	3864.2	3679.7	3515.7	3336.3	3233.8	3121.1	3110.8	3075.0
7.5°	4525.3	4335.7	3946.2	3592.6	3310.7	3059.6	2818.7	2685.5	2547.1	2516.3	2485.6
10°	4509.9	4258.8	3771.9	3310.7	2936.6	2624.0	2352.3	2183.2	2039.7	2003.8	1973.1
12.5°	4525.3	4217.8	3607.9	3049.3	2603.5	2249.8	1942.3	1768.1	1634.9	1599.0	1578.5
15°	4561.2	4192.2	3469.6	2813.6	2306.2	1911.6	1609.2	1460.6	1353.0	1317.1	1306.9
17.5°	4591.9	4166.6	3321.0	2583.0	2009.0	1614.4	1353.0	1230.0	1137.7	1101.9	1091.6
20°	4632.9	4130.7	3172.3	2362.6	1747.6	1378.6	1148.0	1040.4	968.6	943.0	937.9
22.5°	4668.8	4105.1	3034.0	2142.2	1506.7	1189.0	994.2	907.1	855.9	830.2	830.2
25°	4761.1	4115.3	2916.1	1937.2	1327.4	1040.4	876.4	809.7	768.7	753.4	753.4
27.5°	4868.7	4156.3	2823.8	1763.0	1173.6	927.6	794.4	738.0	717.5	697.0	702.1
30°	5022.4	4238.3	2762.3	1619.5	1060.9	840.5	727.7	686.7	666.2	661.1	661.1
32.5°	5217.2	4371.6	2757.2	1527.2	978.9	773.9	681.6	645.7	635.5	630.4	630.4
35°	5447.8	4489.4	2726.5	1486.2	927.6	727.7	645.7	620.1	615.0	615.0	615.0
37.5°	5724.5	4684.2	2706.0	1429.9	902.0	702.1	620.1	599.6	599.6	599.6	599.6
40°	6011.5	4843.1	2675.2	1378.6	891.7	686.7	604.7	579.1	579.1	579.1	579.1
42.5°	6354.9	5073.7	2665.0	1353.0	876.4	676.5	584.2	553.5	558.6	558.6	563.7
45°	6770.0	5335.0	2659.8	1327.4	871.2	666.2	563.7	527.9	533.0	527.9	527.9
47.5°	7190.3	5637.4	2675.2	1312.0	866.1	656.0	548.4	502.2	502.2	497.1	497.1
50°	7631.0	5914.2	2685.5	1296.6	855.9	635.5	522.7	481.7	471.5	461.2	466.4
52.5°	8046.1	6170.4	2690.6	1271.0	825.1	604.7	502.2	456.1	440.7	425.4	430.5
55°	8461.3	6416.4	2700.8	1240.2	784.1	574.0	476.6	430.5	410.0	389.5	389.5
57.5°	8835.4	6631.7	2675.2	1163.4	738.0	543.2	451.0	399.7	369.0	348.5	348.5
60°	9091.6	6785.4	2598.3	1050.6	676.5	507.4	425.4	369.0	333.1	317.7	317.7
62.5°	9214.6	6811.0	2460.0	866.1	599.6	471.5	394.6	338.2	307.5	297.2	297.2
65°	9096.7	6698.3	2244.7	650.9	517.6	430.5	363.9	312.6	281.9	256.2	256.2
67.5°	8686.8	6380.5	1947.5	492.0	440.7	389.5	333.1	287.0	251.1	230.6	230.6
70°	7861.6	5719.4	1506.7	394.6	374.1	338.2	302.4	256.2	225.5	199.9	199.9
72.5°	6780.3	4848.2	1060.9	317.7	317.7	287.0	256.2	225.5	194.7	174.2	174.2
75°	5201.8	3587.4	712.4	256.2	261.4	240.9	210.1	184.5	164.0	148.6	148.6
77.5°	2839.2	1773.2	435.6	189.6	194.7	184.5	164.0	148.6	138.4	123.0	123.0
80°	1378.6	779.0	251.1	133.2	138.4	133.2	123.0	107.6	107.6	97.4	97.4
82.5°	579.1	292.1	133.2	92.2	92.2	82.0	76.9	76.9	76.9	71.7	71.7
85°	143.5	56.4	56.4	51.2	51.2	51.2	46.1	46.1	46.1	35.9	41.0
87.5°	20.5	20.5	20.5	20.5	20.5	20.5	15.4	5.1	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)