

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: P841525

Luminaire Tested: **ARCH4-190-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841525
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: ARCH4-190-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA 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: 20836 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 190
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



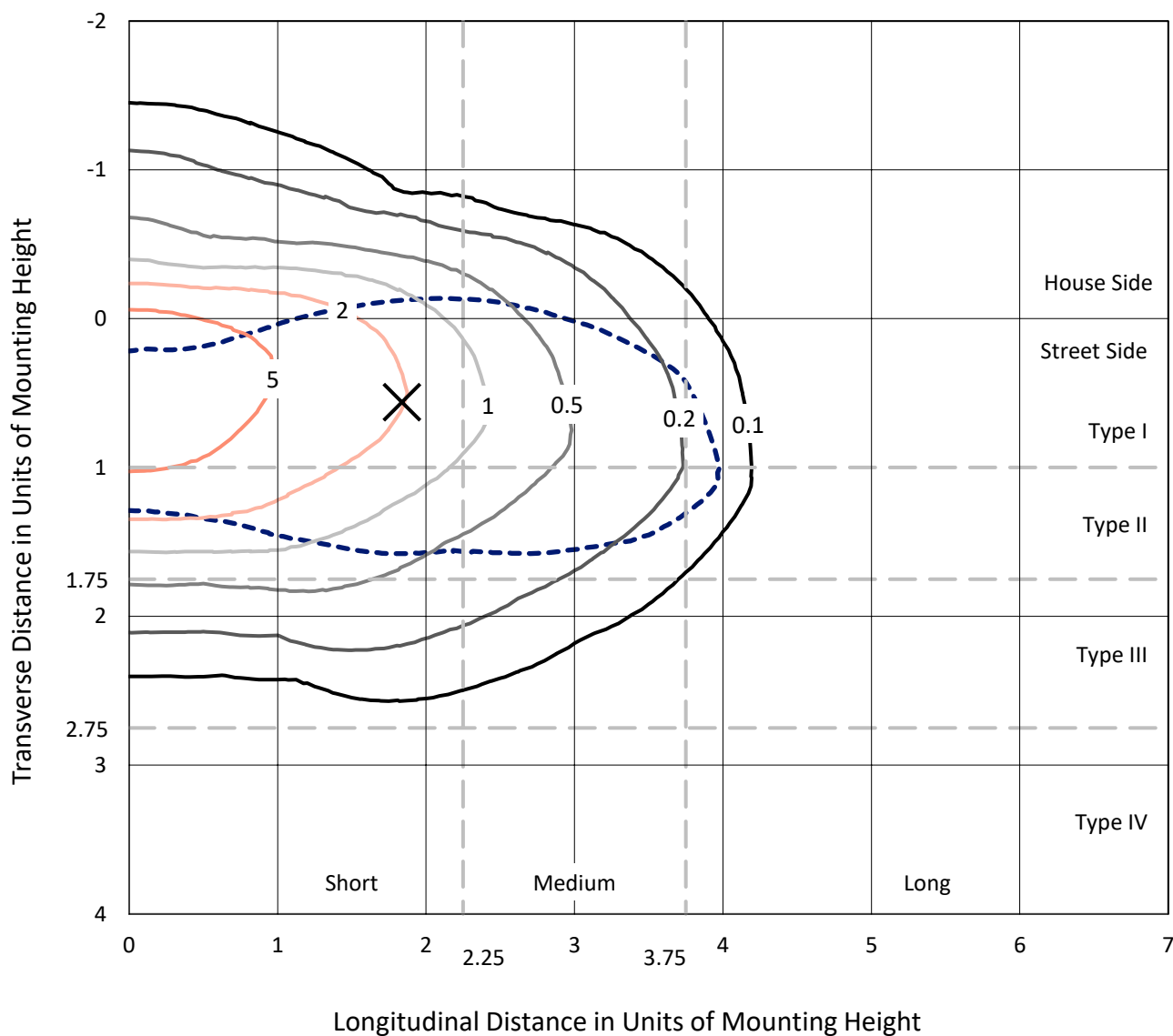
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

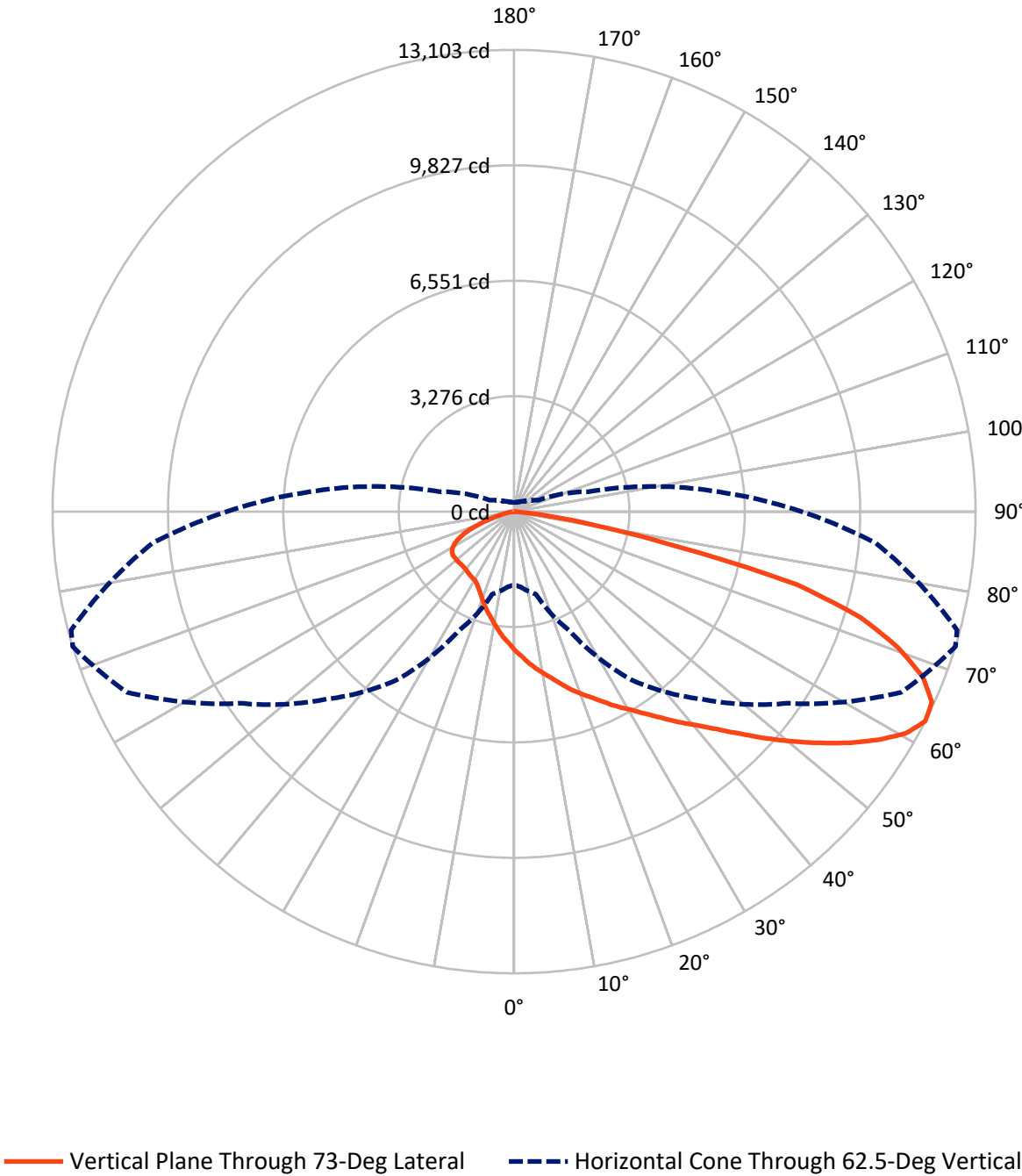
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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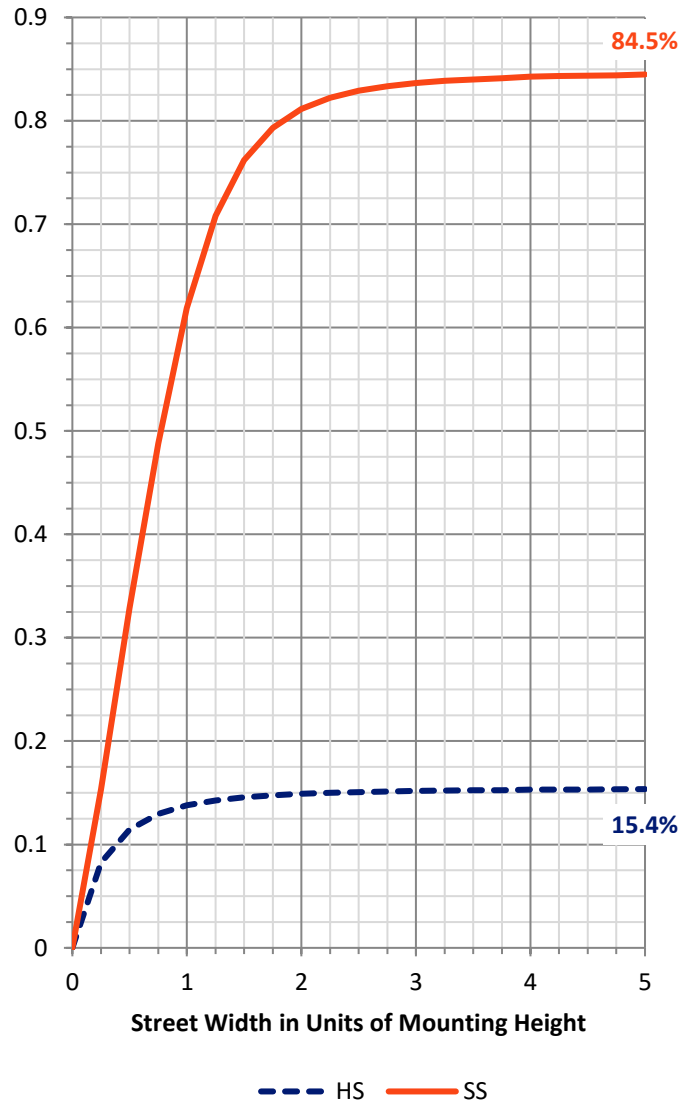
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3229.9	0.0	3229.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	17606.1	0.0	17606.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	20836.0	0.0	20836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.1	1.8
10°-20°	1150.1	5.5
20°-30°	1914.4	9.2
30°-40°	2888.5	13.9
40°-50°	4037.4	19.4
50°-60°	4459.6	21.4
60°-70°	3884.9	18.6
70°-80°	1962.4	9.4
80°-90°	157.5	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°	20836.0	100.0
0°-180°	20836.0	100.0

Coefficient of Utilization



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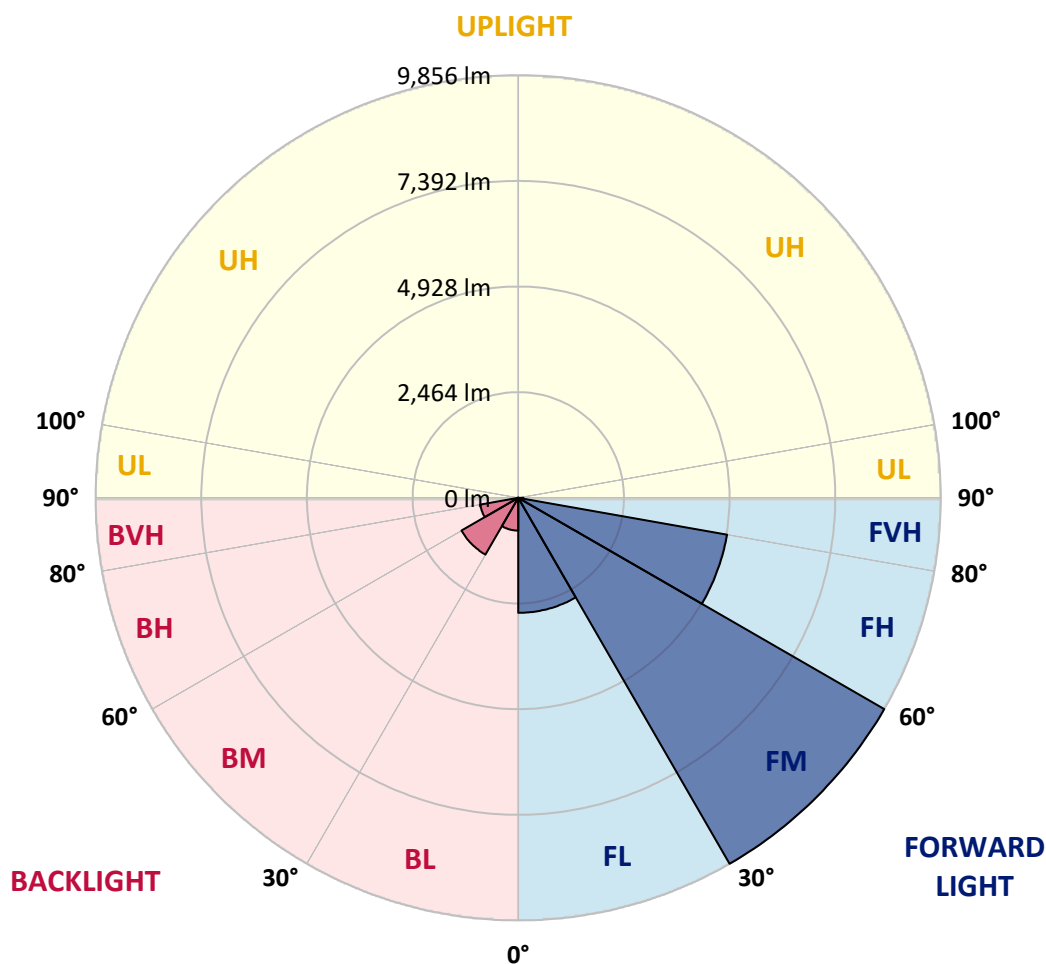
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2682.2	12.9			
FM	(30°-60°)	9856.2	47.3			
FH	(60°-80°)	4945.8	23.7			G2/5000
FVH	(80°-90°)	121.9	0.6			G2/225
BL	(0°-30°)	763.4	3.7	B2/1000		
BM	(30°-60°)	1529.3	7.3	B2/2500		
BH	(60°-80°)	901.5	4.3	B2/1000		G2/1000
BVH	(80°-90°)	35.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3
2.5°	4490.2	4540.1	4512.9	4531.0	4440.2	4381.2	4313.1	4181.4	4108.8	4099.7	4013.4
5°	5148.5	5202.9	5157.5	5143.9	4985.0	4848.8	4694.5	4462.9	4308.5	4281.3	4090.6
7.5°	5806.8	5856.7	5802.2	5761.4	5548.0	5307.4	5080.4	4739.9	4499.2	4453.8	4154.2
10°	6269.9	6315.3	6274.4	6233.5	6011.1	5765.9	5443.6	4998.6	4671.8	4599.1	4195.0
12.5°	6619.5	6646.7	6628.5	6592.2	6383.4	6120.0	5811.3	5289.2	4867.0	4776.2	4258.6
15°	6905.5	6950.9	6928.2	6900.9	6701.2	6437.9	6142.7	5593.4	5094.0	4980.5	4353.9
17.5°	7096.2	7127.9	7132.5	7132.5	6955.4	6696.6	6410.6	5870.3	5321.0	5175.7	4444.8
20°	7182.4	7218.7	7241.4	7277.8	7132.5	6910.0	6619.5	6106.4	5534.4	5370.9	4531.0
22.5°	7223.3	7255.1	7314.1	7395.8	7277.8	7091.6	6823.8	6324.3	5747.8	5575.2	4630.9
25°	7255.1	7295.9	7382.2	7536.6	7454.8	7295.9	7064.4	6574.1	6002.0	5824.9	4776.2
27.5°	7341.3	7391.3	7473.0	7659.1	7559.3	7482.1	7318.6	6841.9	6269.9	6088.3	4953.2
30°	7641.0	7681.8	7677.3	7795.3	7672.8	7650.1	7536.6	7100.7	6528.7	6347.0	5162.1
32.5°	8185.8	8226.6	8126.8	8081.4	7813.5	7818.0	7772.6	7377.7	6837.4	6651.2	5402.7
35°	8771.5	8816.9	8685.2	8608.0	8158.5	8026.9	8049.6	7722.7	7182.4	6996.3	5702.4
37.5°	9293.6	9348.1	9234.5	9121.0	8667.0	8362.9	8358.3	8108.6	7577.4	7386.7	6033.8
40°	9579.6	9643.2	9711.3	9647.7	9171.0	8835.0	8689.7	8503.6	7967.9	7772.6	6392.5
42.5°	9715.8	9892.9	10015.4	9974.6	9584.1	9243.6	9071.1	8916.7	8444.6	8253.9	6819.2
45°	9334.4	9339.0	9597.8	9820.2	9747.6	9520.6	9488.8	9379.8	8989.4	8807.8	7300.5
47.5°	8857.7	8821.4	9003.0	9398.0	9602.3	9661.3	9847.5	9892.9	9611.4	9429.8	7790.8
50°	7713.6	7736.3	8326.5	8894.0	9293.6	9674.9	10101.7	10419.5	10251.5	10079.0	8308.4
52.5°	6274.4	6328.9	7005.4	8253.9	8885.0	9538.7	10251.5	10946.2	10905.3	10741.9	8825.9
55°	5030.4	5116.7	5834.0	7187.0	8362.9	9234.5	10315.1	11427.4	11581.8	11432.0	9334.4
57.5°	3845.5	3936.3	4540.1	5929.4	7695.5	8739.7	10269.7	11849.6	12212.9	12117.5	9802.1
60°	2896.6	2987.4	3373.3	4808.0	6860.1	8185.8	10042.7	12126.6	12780.4	12680.5	10142.6
62.5°	2074.8	2147.5	2433.5	3741.0	5843.1	7527.5	9484.3	12131.1	13102.7	13021.0	10306.0
65°	1493.7	1493.7	1725.2	2669.6	4889.7	6737.5	8639.8	11572.7	13034.6	13011.9	10192.5
67.5°	1076.0	1085.1	1271.2	1866.0	3899.9	5779.5	7545.6	10578.4	12508.0	12621.5	9783.9
70°	762.7	785.4	871.7	1303.0	2946.5	4562.8	6374.3	9275.4	11559.1	11758.8	8993.9
72.5°	590.2	603.8	662.9	908.0	2152.0	3391.4	5080.4	7822.6	10292.4	10519.4	7917.9
75°	454.0	467.6	513.0	667.4	1543.6	2379.0	3609.4	6070.1	8299.3	8703.4	6360.7
77.5°	331.4	349.6	381.4	485.8	898.9	1511.9	2188.3	3414.1	4581.0	4771.6	3332.4
80°	154.4	177.1	222.5	313.3	485.8	712.8	776.4	1316.6	2201.9	2301.8	1807.0
82.5°	86.3	109.0	127.1	190.7	245.2	254.2	263.3	331.4	830.8	917.1	758.2
85°	40.9	54.5	59.0	81.7	81.7	72.6	86.3	63.6	136.2	163.4	158.9
87.5°	0.0	4.5	9.1	22.7	18.2	13.6	13.6	13.6	13.6	18.2	13.6
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°	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3	3945.3
2.5°	3972.6	3913.6	3777.4	3659.3	3582.1	3514.0	3423.2	3382.4	3309.7	3323.3	3282.5
5°	3995.3	3886.3	3645.7	3423.2	3259.8	3114.5	2955.6	2864.8	2764.9	2755.8	2724.1
7.5°	4008.9	3840.9	3495.9	3182.6	2932.9	2710.4	2497.1	2379.0	2256.4	2229.2	2201.9
10°	3995.3	3772.8	3341.5	2932.9	2601.5	2324.5	2083.9	1934.1	1807.0	1775.2	1747.9
12.5°	4008.9	3736.5	3196.2	2701.4	2306.4	1993.1	1720.7	1566.3	1448.3	1416.5	1398.3
15°	4040.7	3713.8	3073.6	2492.5	2043.0	1693.5	1425.6	1293.9	1198.6	1166.8	1157.7
17.5°	4067.9	3691.1	2942.0	2288.2	1779.7	1430.1	1198.6	1089.6	1007.9	976.1	967.0
20°	4104.2	3659.3	2810.3	2093.0	1548.2	1221.3	1017.0	921.6	858.1	835.4	830.8
22.5°	4136.0	3636.6	2687.7	1897.8	1334.8	1053.3	880.8	803.6	758.2	735.5	735.5
25°	4217.7	3645.7	2583.3	1716.2	1175.9	921.6	776.4	717.3	681.0	667.4	667.4
27.5°	4313.1	3682.0	2501.6	1561.8	1039.7	821.8	703.7	653.8	635.6	617.5	622.0
30°	4449.3	3754.7	2447.1	1434.7	939.8	744.6	644.7	608.4	590.2	585.7	585.7
32.5°	4621.8	3872.7	2442.6	1352.9	867.2	685.6	603.8	572.1	563.0	558.4	558.4
35°	4826.1	3977.1	2415.3	1316.6	821.8	644.7	572.1	549.4	544.8	544.8	544.8
37.5°	5071.3	4149.6	2397.2	1266.7	799.1	622.0	549.4	531.2	531.2	531.2	531.2
40°	5325.5	4290.4	2369.9	1221.3	790.0	608.4	535.7	513.0	513.0	513.0	513.0
42.5°	5629.7	4494.7	2360.8	1198.6	776.4	599.3	517.6	490.3	494.9	494.9	499.4
45°	5997.5	4726.2	2356.3	1175.9	771.8	590.2	499.4	467.6	472.2	467.6	467.6
47.5°	6369.8	4994.1	2369.9	1162.3	767.3	581.1	485.8	444.9	444.9	440.4	440.4
50°	6760.2	5239.3	2379.0	1148.6	758.2	563.0	463.1	426.8	417.7	408.6	413.1
52.5°	7127.9	5466.3	2383.5	1125.9	731.0	535.7	444.9	404.1	390.4	376.8	381.4
55°	7495.7	5684.2	2392.6	1098.7	694.6	508.5	422.2	381.4	363.2	345.0	345.0
57.5°	7827.1	5874.9	2369.9	1030.6	653.8	481.2	399.5	354.1	326.9	308.7	308.7
60°	8054.1	6011.1	2301.8	930.7	599.3	449.5	376.8	326.9	295.1	281.5	281.5
62.5°	8163.1	6033.8	2179.2	767.3	531.2	417.7	349.6	299.6	272.4	263.3	263.3
65°	8058.7	5933.9	1988.6	576.6	458.5	381.4	322.3	276.9	249.7	227.0	227.0
67.5°	7695.5	5652.4	1725.2	435.8	390.4	345.0	295.1	254.2	222.5	204.3	204.3
70°	6964.5	5066.7	1334.8	349.6	331.4	299.6	267.9	227.0	199.8	177.1	177.1
72.5°	6006.5	4294.9	939.8	281.5	281.5	254.2	227.0	199.8	172.5	154.4	154.4
75°	4608.2	3178.1	631.1	227.0	231.5	213.4	186.1	163.4	145.3	131.7	131.7
77.5°	2515.2	1570.9	385.9	168.0	172.5	163.4	145.3	131.7	122.6	109.0	109.0
80°	1221.3	690.1	222.5	118.0	122.6	118.0	109.0	95.3	95.3	86.3	86.3
82.5°	513.0	258.8	118.0	81.7	81.7	72.6	68.1	68.1	68.1	63.6	63.6
85°	127.1	49.9	49.9	45.4	45.4	45.4	40.9	40.9	40.9	31.8	36.3
87.5°	18.2	18.2	18.2	18.2	18.2	18.2	13.6	4.5	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)