

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: P841552

Luminaire Tested: **ARCH4-190-750-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841552
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: ARCH4-190-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 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: 21878 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

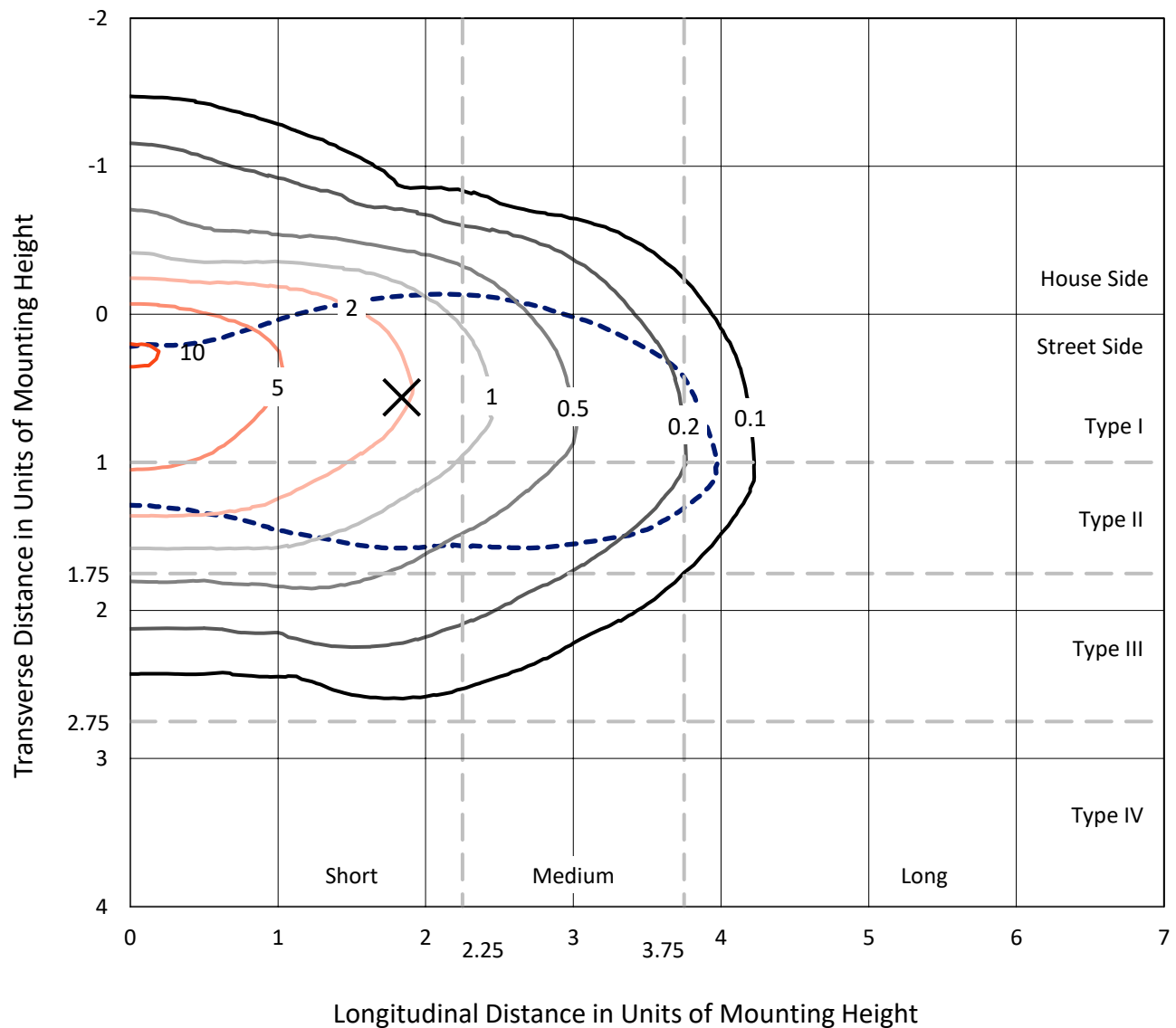
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

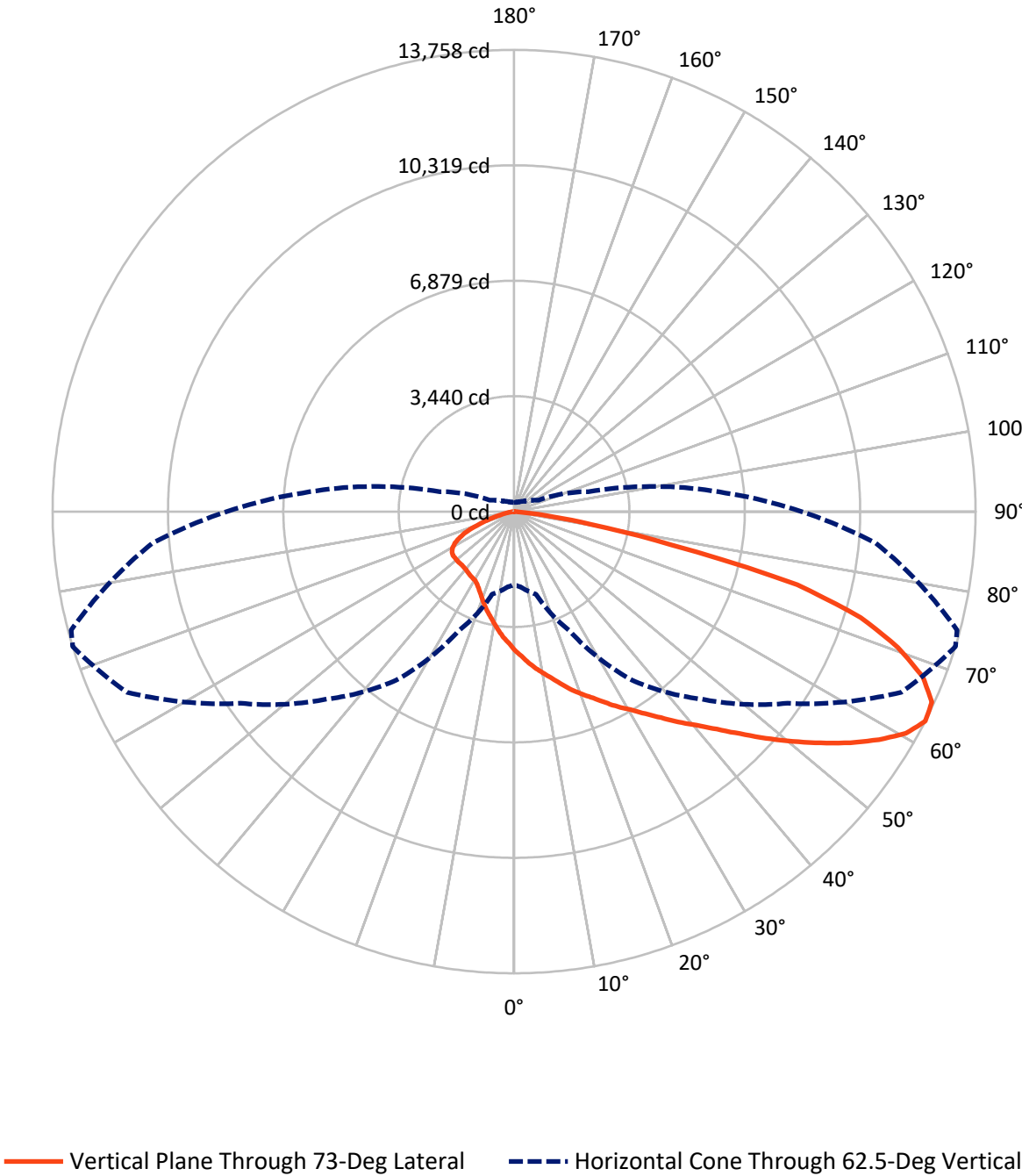
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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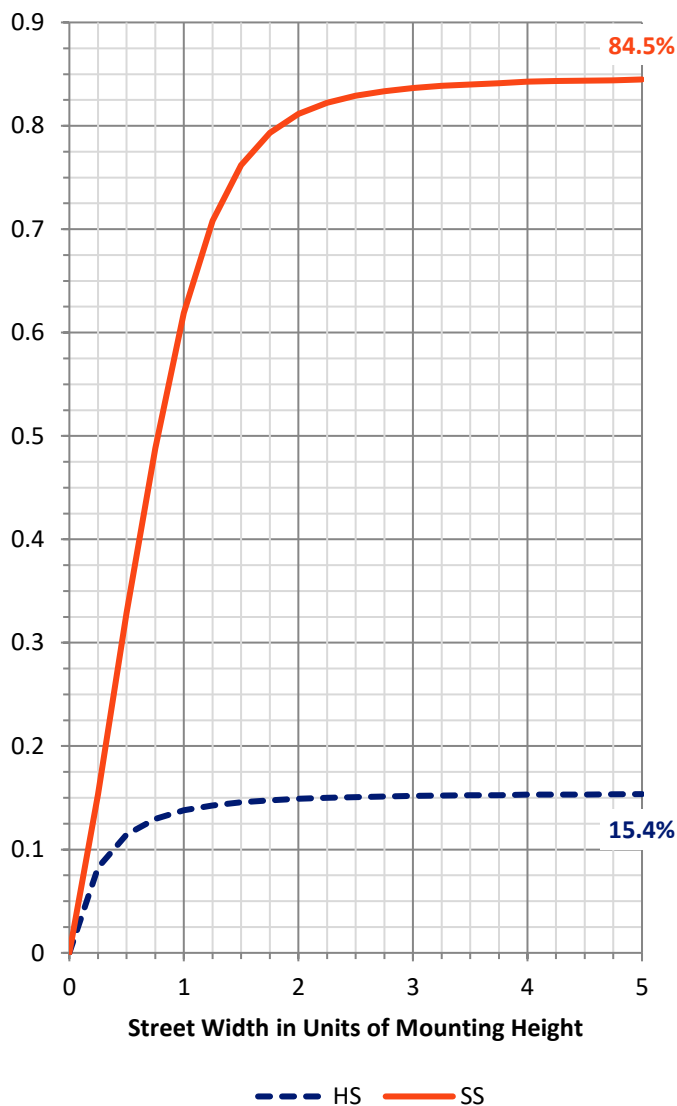
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3391.4	0.0	3391.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	18486.6	0.0	18486.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	21878.0	0.0	21878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.2	1.8
10°-20°	1207.6	5.5
20°-30°	2010.1	9.2
30°-40°	3033.0	13.9
40°-50°	4239.3	19.4
50°-60°	4682.6	21.4
60°-70°	4079.2	18.6
70°-80°	2060.6	9.4
80°-90°	165.4	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°	21878.0	100.0
0°-180°	21878.0	100.0

Coefficient of Utilization



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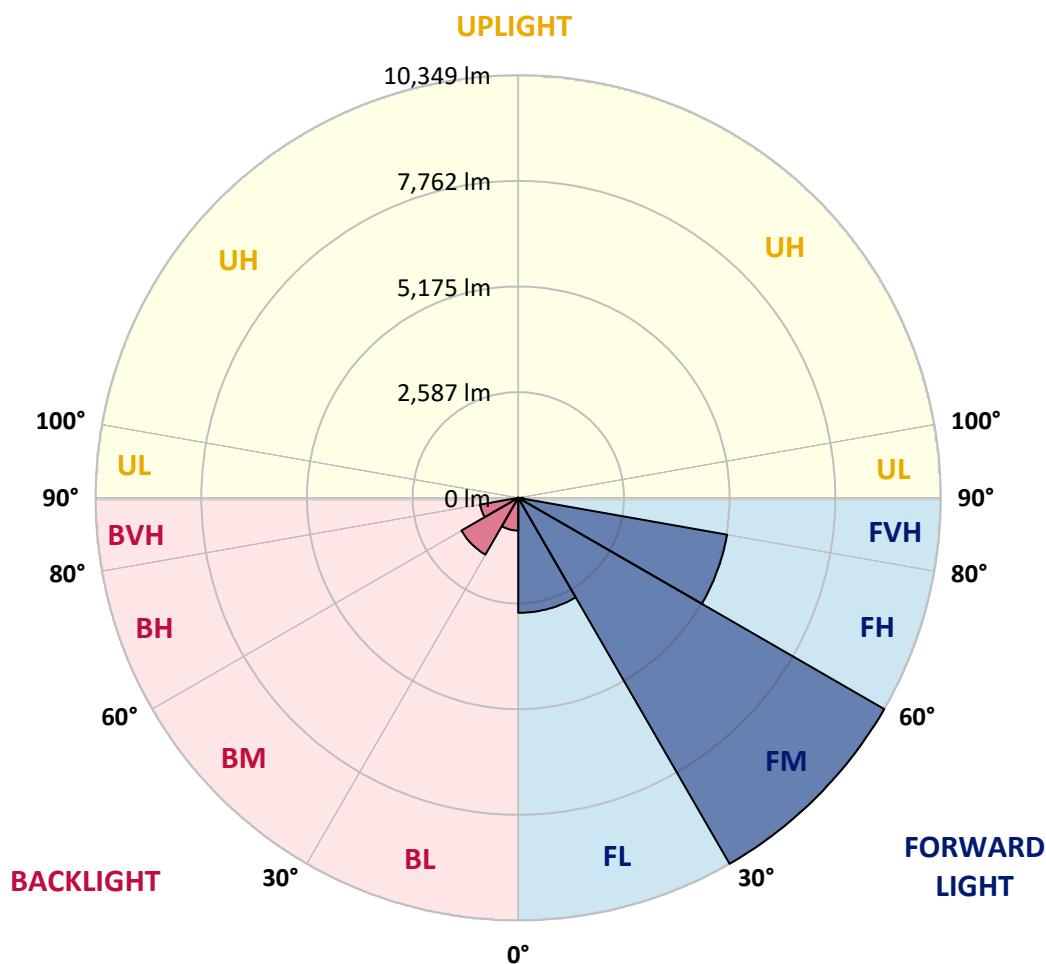
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2816.4	12.9			
FM	(30°-60°)	10349.1	47.3			
FH	(60°-80°)	5193.1	23.7			G3/7500
FVH	(80°-90°)	128.0	0.6			G2/225
BL	(0°-30°)	801.6	3.7	B2/1000		
BM	(30°-60°)	1605.8	7.3	B2/2500		
BH	(60°-80°)	946.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	37.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6
2.5°	4714.7	4767.1	4738.5	4757.6	4662.3	4600.3	4528.8	4390.5	4314.3	4304.7	4214.2
5°	5405.9	5463.1	5415.5	5401.2	5234.3	5091.3	4929.2	4686.1	4524.0	4495.4	4295.2
7.5°	6097.2	6149.6	6092.4	6049.5	5825.4	5572.8	5334.4	4976.9	4724.2	4676.6	4361.9
10°	6583.4	6631.1	6588.2	6545.3	6311.7	6054.3	5715.8	5248.6	4905.4	4829.1	4404.8
12.5°	6950.5	6979.1	6960.0	6921.9	6702.6	6426.1	6101.9	5553.7	5110.4	5015.0	4471.6
15°	7250.8	7298.5	7274.7	7246.1	7036.3	6759.8	6449.9	5873.1	5348.7	5229.6	4571.7
17.5°	7451.0	7484.4	7489.2	7489.2	7303.3	7031.5	6731.2	6163.9	5587.1	5434.5	4667.0
20°	7541.6	7579.8	7603.6	7641.7	7489.2	7255.6	6950.5	6411.8	5811.1	5639.5	4757.6
22.5°	7584.5	7617.9	7679.9	7765.7	7641.7	7446.3	7165.0	6640.6	6035.2	5854.0	4862.5
25°	7617.9	7660.8	7751.4	7913.5	7827.6	7660.8	7417.7	6902.8	6302.2	6116.2	5015.0
27.5°	7708.5	7760.9	7846.7	8042.2	7937.3	7856.2	7684.6	7184.1	6583.4	6392.7	5201.0
30°	8023.1	8066.0	8061.2	8185.2	8056.5	8032.6	7913.5	7455.8	6855.1	6664.5	5420.2
32.5°	8595.2	8638.1	8533.2	8485.5	8204.2	8209.0	8161.3	7746.6	7179.3	6983.9	5672.9
35°	9210.1	9257.8	9119.5	9038.5	8566.6	8428.3	8452.1	8108.9	7541.6	7346.2	5987.5
37.5°	9758.3	9815.5	9696.4	9577.2	9100.5	8781.1	8776.3	8514.1	7956.4	7756.1	6335.5
40°	10058.7	10125.4	10196.9	10130.2	9629.6	9276.9	9124.3	8928.9	8366.3	8161.3	6712.1
42.5°	10201.7	10387.6	10516.3	10473.4	10063.4	9705.9	9524.7	9362.7	8866.9	8666.7	7160.2
45°	9801.2	9806.0	10077.7	10311.3	10235.1	9996.7	9963.3	9848.9	9438.9	9248.3	7665.6
47.5°	9300.7	9262.6	9453.2	9868.0	10082.5	10144.5	10339.9	10387.6	10092.0	9901.4	8180.4
50°	8099.4	8123.2	8742.9	9338.8	9758.3	10158.8	10606.9	10940.6	10764.2	10583.1	8723.9
52.5°	6588.2	6645.4	7355.7	8666.7	9329.3	10015.8	10764.2	11493.6	11450.7	11279.1	9267.3
55°	5282.0	5372.6	6125.8	7546.4	8781.1	9696.4	10830.9	11998.9	12161.0	12003.7	9801.2
57.5°	4037.8	4133.1	4767.1	6225.9	8080.3	9176.7	10783.3	12442.2	12823.6	12723.5	10292.3
60°	3041.4	3136.8	3542.0	5048.4	7203.2	8595.2	10544.9	12733.0	13419.5	13314.6	10649.8
62.5°	2178.6	2254.9	2555.2	3928.1	6135.3	7903.9	9958.6	12737.8	13758.0	13672.2	10821.4
65°	1568.4	1568.4	1811.5	2803.1	5134.2	7074.4	9071.9	12151.4	13686.5	13662.6	10702.2
67.5°	1129.8	1139.3	1334.8	1959.3	4095.0	6068.6	7923.0	11107.4	13133.5	13252.7	10273.2
70°	800.9	824.7	915.3	1368.2	3093.9	4791.0	6693.1	9739.3	12137.1	12346.9	9443.7
72.5°	619.7	634.0	696.0	953.4	2259.6	3561.1	5334.4	8213.8	10807.1	11045.5	8313.9
75°	476.7	491.0	538.7	700.8	1620.8	2498.0	3789.9	6373.7	8714.3	9138.6	6678.8
77.5°	348.0	367.1	400.4	510.1	943.9	1587.5	2297.8	3584.9	4810.0	5010.3	3499.1
80°	162.1	185.9	233.6	328.9	510.1	748.4	815.2	1382.5	2312.1	2416.9	1897.3
82.5°	90.6	114.4	133.5	200.2	257.4	267.0	276.5	348.0	872.4	963.0	796.1
85°	42.9	57.2	62.0	85.8	85.8	76.3	90.6	66.7	143.0	171.6	166.8
87.5°	0.0	4.8	9.5	23.8	19.1	14.3	14.3	14.3	14.3	19.1	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°	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6	4142.6
2.5°	4171.2	4109.3	3966.3	3842.3	3761.3	3689.8	3594.4	3551.5	3475.2	3489.5	3446.6
5°	4195.1	4080.7	3828.0	3594.4	3422.8	3270.3	3103.4	3008.1	2903.2	2893.7	2860.3
7.5°	4209.4	4033.0	3670.7	3341.8	3079.6	2846.0	2621.9	2498.0	2369.3	2340.7	2312.1
10°	4195.1	3961.5	3508.6	3079.6	2731.6	2440.8	2188.1	2030.8	1897.3	1864.0	1835.3
12.5°	4209.4	3923.4	3356.1	2836.4	2421.7	2092.8	1806.7	1644.7	1520.7	1487.3	1468.3
15°	4242.8	3899.5	3227.4	2617.2	2145.2	1778.1	1496.9	1358.6	1258.5	1225.2	1215.6
17.5°	4271.4	3875.7	3089.1	2402.6	1868.7	1501.6	1258.5	1144.1	1058.3	1024.9	1015.4
20°	4309.5	3842.3	2950.9	2197.7	1625.6	1282.4	1067.8	967.7	901.0	877.2	872.4
22.5°	4342.9	3818.5	2822.1	1992.7	1401.5	1106.0	924.8	843.8	796.1	772.3	772.3
25°	4428.7	3828.0	2712.5	1802.0	1234.7	967.7	815.2	753.2	715.1	700.8	700.8
27.5°	4528.8	3866.2	2626.7	1639.9	1091.7	862.9	738.9	686.5	667.4	648.3	653.1
30°	4671.8	3942.4	2569.5	1506.4	986.8	781.8	676.9	638.8	619.7	615.0	615.0
32.5°	4852.9	4066.4	2564.7	1420.6	910.5	719.8	634.0	600.7	591.1	586.4	586.4
35°	5067.5	4176.0	2536.1	1382.5	862.9	676.9	600.7	576.8	572.1	572.1	572.1
37.5°	5324.9	4357.2	2517.1	1330.0	839.0	653.1	576.8	557.8	557.8	557.8	557.8
40°	5591.9	4504.9	2488.4	1282.4	829.5	638.8	562.5	538.7	538.7	538.7	538.7
42.5°	5911.3	4719.5	2478.9	1258.5	815.2	629.3	543.5	514.9	519.6	519.6	524.4
45°	6297.4	4962.6	2474.1	1234.7	810.4	619.7	524.4	491.0	495.8	491.0	491.0
47.5°	6688.3	5243.9	2488.4	1220.4	805.6	610.2	510.1	467.2	467.2	462.4	462.4
50°	7098.3	5501.3	2498.0	1206.1	796.1	591.1	486.2	448.1	438.6	429.0	433.8
52.5°	7484.4	5739.6	2502.7	1182.3	767.5	562.5	467.2	424.3	410.0	395.7	400.4
55°	7870.6	5968.5	2512.3	1153.6	729.4	533.9	443.3	400.4	381.4	362.3	362.3
57.5°	8218.6	6168.7	2488.4	1082.1	686.5	505.3	419.5	371.8	343.2	324.2	324.2
60°	8456.9	6311.7	2416.9	977.3	629.3	471.9	395.7	343.2	309.9	295.6	295.6
62.5°	8571.3	6335.5	2288.2	805.6	557.8	438.6	367.1	314.6	286.0	276.5	276.5
65°	8461.7	6230.7	2088.0	605.4	481.5	400.4	338.5	290.8	262.2	238.4	238.4
67.5°	8080.3	5935.1	1811.5	457.6	410.0	362.3	309.9	267.0	233.6	214.5	214.5
70°	7312.8	5320.1	1401.5	367.1	348.0	314.6	281.3	238.4	209.8	185.9	185.9
72.5°	6306.9	4509.7	986.8	295.6	295.6	267.0	238.4	209.8	181.2	162.1	162.1
75°	4838.6	3337.0	662.6	238.4	243.1	224.1	195.5	171.6	152.5	138.2	138.2
77.5°	2641.0	1649.4	405.2	176.4	181.2	171.6	152.5	138.2	128.7	114.4	114.4
80°	1282.4	724.6	233.6	123.9	128.7	123.9	114.4	100.1	100.1	90.6	90.6
82.5°	538.7	271.7	123.9	85.8	85.8	76.3	71.5	71.5	71.5	66.7	66.7
85°	133.5	52.4	52.4	47.7	47.7	47.7	42.9	42.9	42.9	33.4	38.1
87.5°	19.1	19.1	19.1	19.1	19.1	19.1	14.3	4.8	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)