

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: P841797

Luminaire Tested: **ARCH4-230-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841797
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: ARCH4-230-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 905mA 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: 20553 lumens
Efficiency: N/A
Efficacy: 88.9 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): 231.2
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



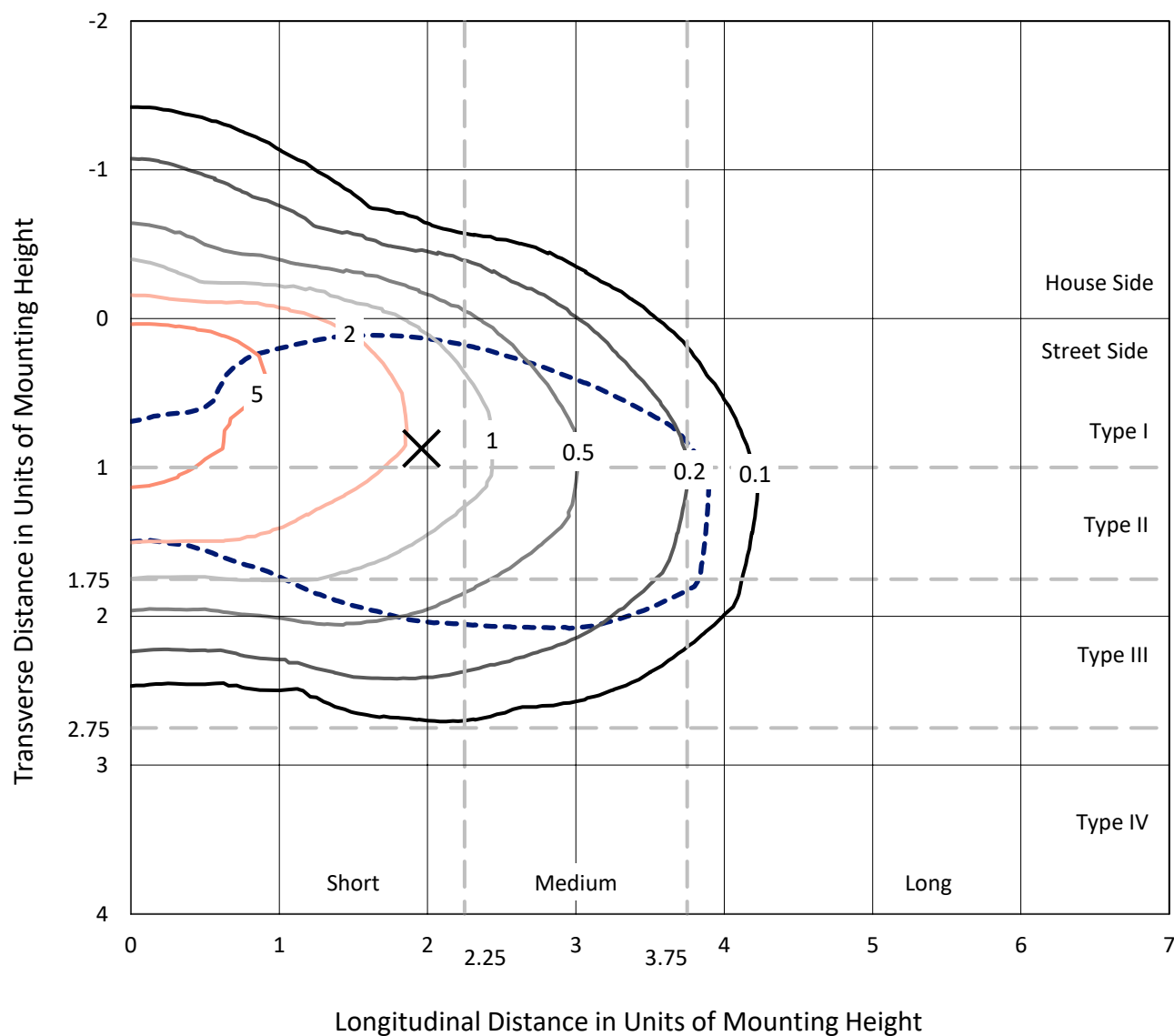
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

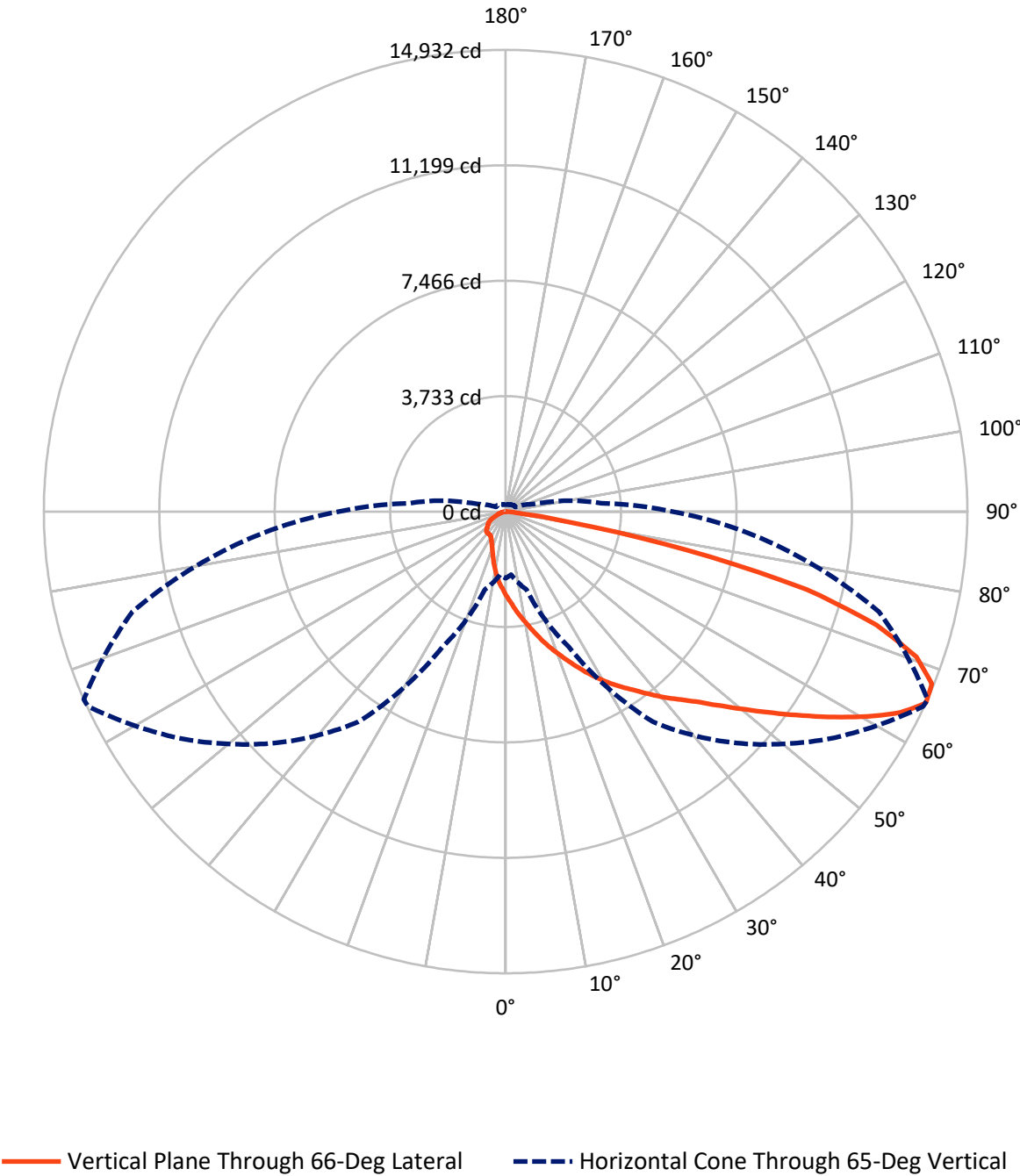


Based on 25 foot mounting height. Maximum calculated value = 7.9 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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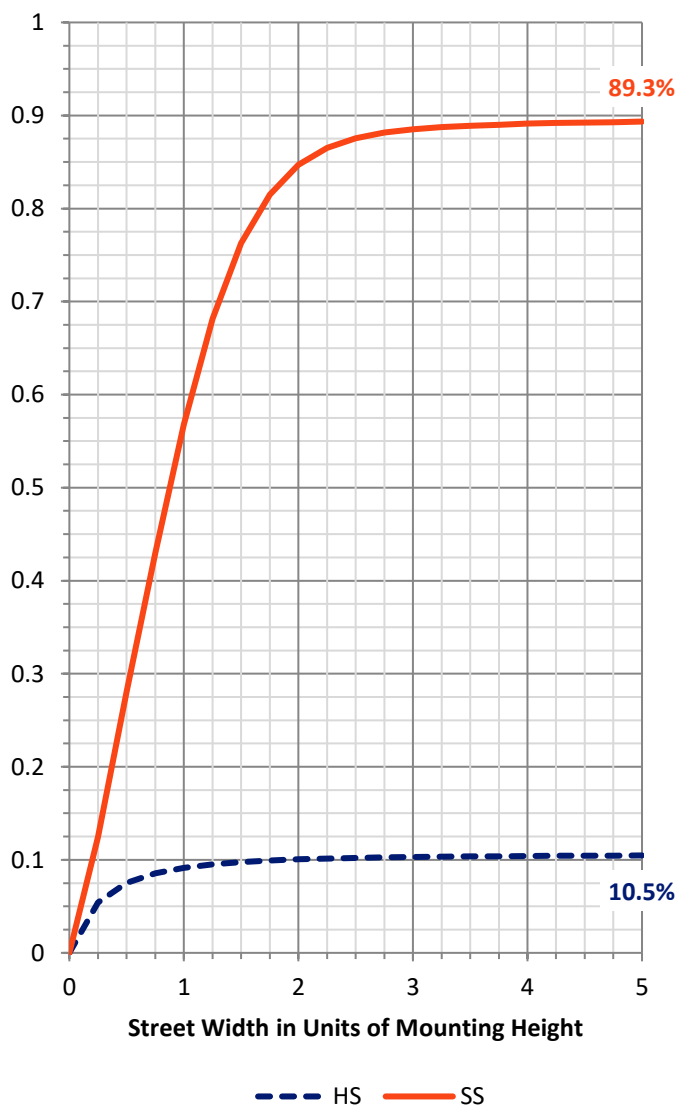
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2173.9	0.0	2173.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	18379.0	0.0	18379.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	20553.0	0.0	20553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	1.3
10°-20°	875.0	4.3
20°-30°	1583.2	7.7
30°-40°	2475.7	12.0
40°-50°	3755.6	18.3
50°-60°	4771.6	23.2
60°-70°	4458.6	21.7
70°-80°	2215.9	10.8
80°-90°	148.9	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°	20553.0	100.0
0°-180°	20553.0	100.0

Coefficient of Utilization



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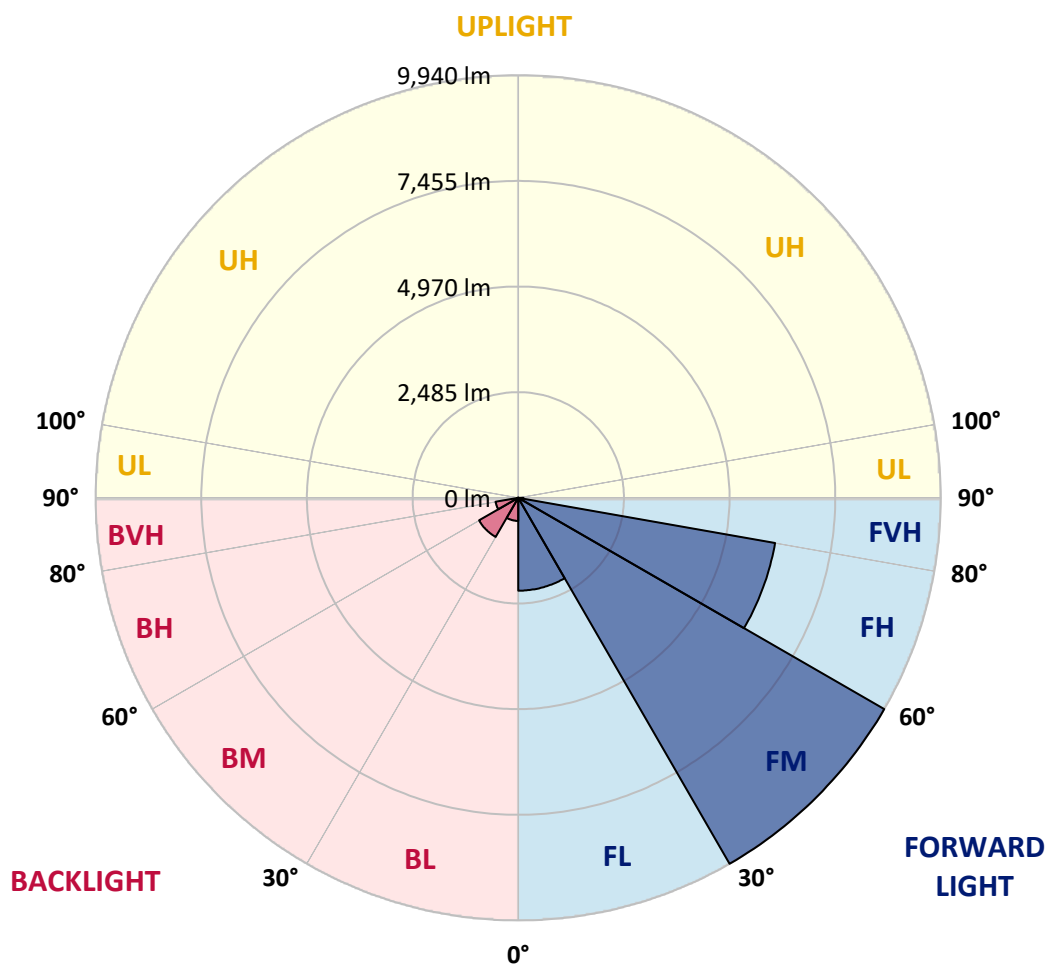
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2183.8	10.6			
FM	(30°-60°)	9939.7	48.4			
FH	(60°-80°)	6133.1	29.8			G3/7500
FVH	(80°-90°)	122.5	0.6			G2/225
BL	(0°-30°)	542.9	2.6	B2/1000		
BM	(30°-60°)	1063.3	5.2	B2/2500		
BH	(60°-80°)	541.4	2.6	B2/1000		G2/1000
BVH	(80°-90°)	26.4	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°	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1
2.5°	3177.0	3202.9	3215.8	3220.1	3121.0	3077.9	3034.8	2935.6	2914.1	2858.0	2784.7
5°	3737.4	3771.9	3763.3	3746.0	3625.3	3487.4	3375.3	3189.9	3159.8	3026.1	2862.3
7.5°	4289.2	4319.4	4310.7	4246.1	4112.4	3918.5	3733.1	3461.5	3418.4	3202.9	2939.9
10°	4750.4	4776.3	4772.0	4707.3	4547.8	4310.7	4086.6	3724.5	3672.8	3366.7	3004.6
12.5°	5129.8	5164.3	5160.0	5116.8	4974.6	4715.9	4461.6	4026.2	3961.6	3565.0	3095.1
15°	5427.2	5470.3	5470.3	5453.1	5353.9	5138.4	4849.6	4358.2	4280.6	3793.5	3207.2
17.5°	5608.3	5642.8	5672.9	5703.1	5634.1	5470.3	5207.4	4690.1	4608.2	4017.6	3323.6
20°	5703.1	5737.6	5759.1	5823.8	5836.7	5754.8	5547.9	5017.7	4931.5	4271.9	3457.2
22.5°	5858.3	5888.5	5892.8	5948.8	5974.7	5996.2	5866.9	5341.0	5272.0	4552.1	3608.1
25°	6116.9	6151.4	6138.5	6164.4	6168.7	6194.5	6181.6	5711.7	5642.8	4871.1	3789.1
27.5°	6448.9	6492.0	6483.4	6457.5	6418.7	6397.1	6453.2	6086.8	6022.1	5190.1	3974.5
30°	6806.7	6858.4	6845.5	6793.7	6690.3	6599.7	6677.3	6440.2	6379.9	5517.7	4181.4
32.5°	7168.8	7229.1	7224.8	7138.6	6961.8	6806.7	6923.0	6772.2	6729.1	5871.2	4405.6
35°	7405.9	7483.4	7474.8	7423.1	7194.6	7061.0	7203.2	7112.7	7082.5	6302.3	4728.9
37.5°	7789.5	7871.4	7798.1	7668.8	7405.9	7336.9	7509.3	7496.4	7474.8	6759.2	5069.4
40°	8720.6	8841.3	8647.3	8117.1	7686.0	7625.7	7871.4	7923.1	7901.6	7211.9	5375.5
42.5°	9694.9	9875.9	9574.2	8841.3	8194.7	7974.9	8268.0	8341.3	8315.4	7599.8	5651.4
45°	10285.4	10363.0	10061.3	9492.2	9095.7	8397.3	8690.5	8811.2	8789.6	8065.4	6004.9
47.5°	10768.2	10738.1	10393.2	10009.5	10082.8	8992.2	9168.9	9406.0	9388.8	8578.4	6392.8
50°	10871.7	10802.7	10664.8	10423.4	10617.4	9595.7	9673.3	10082.8	10065.6	9147.4	6785.1
52.5°	10143.2	10052.6	10427.7	10630.3	10565.6	10035.4	10229.4	10824.3	10815.6	9763.8	7160.1
55°	8324.0	8250.8	9259.5	10307.0	10509.6	10345.8	10845.8	11595.9	11643.3	10419.1	7500.7
57.5°	6548.0	6470.4	7461.9	9496.6	10302.7	10630.3	11565.7	12479.6	12539.9	11130.3	7824.0
60°	5220.3	5103.9	5862.6	8220.6	9914.7	10850.1	12259.7	13449.5	13458.1	11781.3	8022.3
62.5°	3547.7	3418.4	4259.0	6604.1	9263.8	10884.6	12794.3	14285.8	14320.3	12268.4	8056.8
65°	2155.4	2047.6	2616.6	4823.7	8302.5	10591.5	12802.9	14902.2	14932.4	12492.5	7849.9
67.5°	1250.1	1207.0	1495.8	3004.6	6707.5	9802.6	12264.1	14807.4	14863.4	12397.7	7380.0
70°	728.5	724.2	832.0	1487.2	4733.2	8237.8	11061.4	14009.9	14091.8	11902.0	6660.1
72.5°	534.5	543.2	586.3	797.5	2741.6	5931.6	9367.2	12406.3	12531.3	10932.0	5634.1
75°	422.5	426.8	465.6	543.2	1439.8	3353.8	7017.9	9957.8	10057.0	9203.4	4401.3
77.5°	314.7	323.3	353.5	383.7	668.2	1538.9	3948.6	6134.2	5970.4	5052.2	2125.2
80°	228.5	250.0	263.0	275.9	353.5	594.9	1185.5	2138.1	2120.9	2207.1	1004.4
82.5°	146.6	163.8	176.7	185.4	211.2	284.5	353.5	478.5	517.3	857.8	400.9
85°	64.7	73.3	81.9	99.1	90.5	99.1	146.6	94.8	81.9	129.3	73.3
87.5°	0.0	0.0	12.9	21.6	17.2	8.6	25.9	17.2	12.9	12.9	12.9
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°	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1	2720.1
2.5°	2745.9	2698.5	2599.4	2504.5	2448.5	2375.2	2310.6	2250.2	2245.9	2228.7	2198.5
5°	2780.4	2689.9	2504.5	2327.8	2194.2	2051.9	1931.2	1836.4	1801.9	1776.0	1741.5
7.5°	2814.9	2672.7	2396.8	2138.1	1926.9	1728.6	1586.4	1457.0	1418.2	1383.7	1362.2
10°	2827.8	2642.5	2271.8	1926.9	1651.0	1439.8	1288.9	1194.1	1159.6	1142.3	1129.4
12.5°	2866.6	2625.2	2155.4	1728.6	1409.6	1215.6	1107.9	1051.8	1038.9	1026.0	1013.0
15°	2918.4	2625.2	2039.0	1534.6	1219.9	1064.8	1000.1	961.3	952.7	948.4	939.7
17.5°	2974.4	2625.2	1926.9	1370.8	1082.0	965.6	918.2	896.6	892.3	888.0	883.7
20°	3052.0	2629.6	1806.2	1228.6	982.8	892.3	853.5	827.7	823.4	819.0	819.0
22.5°	3129.6	2638.2	1689.8	1120.8	918.2	836.3	788.9	763.0	754.4	754.4	754.4
25°	3228.7	2664.0	1582.0	1030.3	862.1	784.6	724.2	702.7	698.3	698.3	694.0
27.5°	3345.1	2694.2	1487.2	961.3	806.1	724.2	663.9	642.3	633.7	633.7	629.4
30°	3470.1	2724.4	1409.6	909.6	750.1	663.9	607.8	581.9	573.3	577.6	573.3
32.5°	3608.1	2767.5	1349.3	875.1	698.3	612.1	560.4	530.2	525.9	525.9	521.6
35°	3840.9	2888.2	1340.6	857.8	655.2	573.3	521.6	491.4	487.1	487.1	482.8
37.5°	4090.9	3026.1	1379.4	849.2	620.7	538.8	491.4	461.2	456.9	456.9	456.9
40°	4302.1	3129.6	1422.5	849.2	599.2	508.7	465.6	439.7	439.7	439.7	439.7
42.5°	4444.4	3138.2	1413.9	849.2	581.9	487.1	448.3	422.5	422.5	426.8	422.5
45°	4655.6	3181.3	1379.4	836.3	569.0	469.9	431.1	409.5	405.2	409.5	409.5
47.5°	4905.6	3258.9	1345.0	784.6	564.7	452.6	418.1	392.3	388.0	392.3	388.0
50°	5142.7	3327.9	1327.7	715.6	556.1	435.4	400.9	375.0	370.7	375.0	370.7
52.5°	5341.0	3358.1	1297.5	668.2	534.5	418.1	383.7	357.8	349.2	353.5	353.5
55°	5500.5	3349.4	1254.4	629.4	495.7	400.9	362.1	340.5	327.6	327.6	323.3
57.5°	5647.1	3353.8	1215.6	590.6	452.6	375.0	344.9	319.0	301.8	297.4	293.1
60°	5703.1	3332.2	1146.7	538.8	409.5	353.5	323.3	293.1	275.9	271.6	267.3
62.5°	5625.5	3254.6	1056.1	448.3	370.7	327.6	301.8	271.6	254.3	250.0	245.7
65°	5405.7	3108.0	918.2	353.5	336.2	297.4	275.9	254.3	232.8	224.2	219.8
67.5°	5030.6	2896.8	745.8	284.5	297.4	271.6	258.6	232.8	206.9	198.3	194.0
70°	4496.1	2616.6	560.4	241.4	263.0	241.4	232.8	206.9	185.4	176.7	172.4
72.5°	3746.0	2164.0	392.3	206.9	228.5	211.2	202.6	185.4	163.8	150.9	150.9
75°	2832.2	1551.9	258.6	176.7	189.7	181.1	168.1	155.2	142.3	133.6	129.3
77.5°	1219.9	603.5	159.5	133.6	155.2	150.9	133.6	125.0	120.7	112.1	112.1
80°	525.9	245.7	99.1	99.1	112.1	107.8	103.5	94.8	94.8	90.5	86.2
82.5°	194.0	99.1	60.4	73.3	81.9	73.3	73.3	73.3	73.3	69.0	69.0
85°	47.4	30.2	30.2	43.1	47.4	43.1	47.4	43.1	43.1	43.1	38.8
87.5°	12.9	12.9	17.2	17.2	17.2	17.2	17.2	12.9	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)