

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: P841257

Luminaire Tested: **ARCH4-150-740-U-T3-HSS**

Issue Date: 5/27/2024

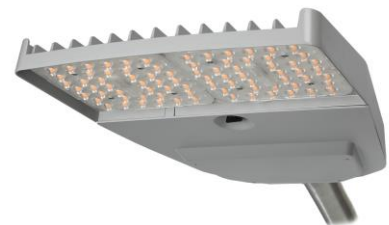
Test Information

Test Method: LM-79-08
Report Number: P841257
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: ARCH4-150-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1230mA 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: 17562 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 150.8
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

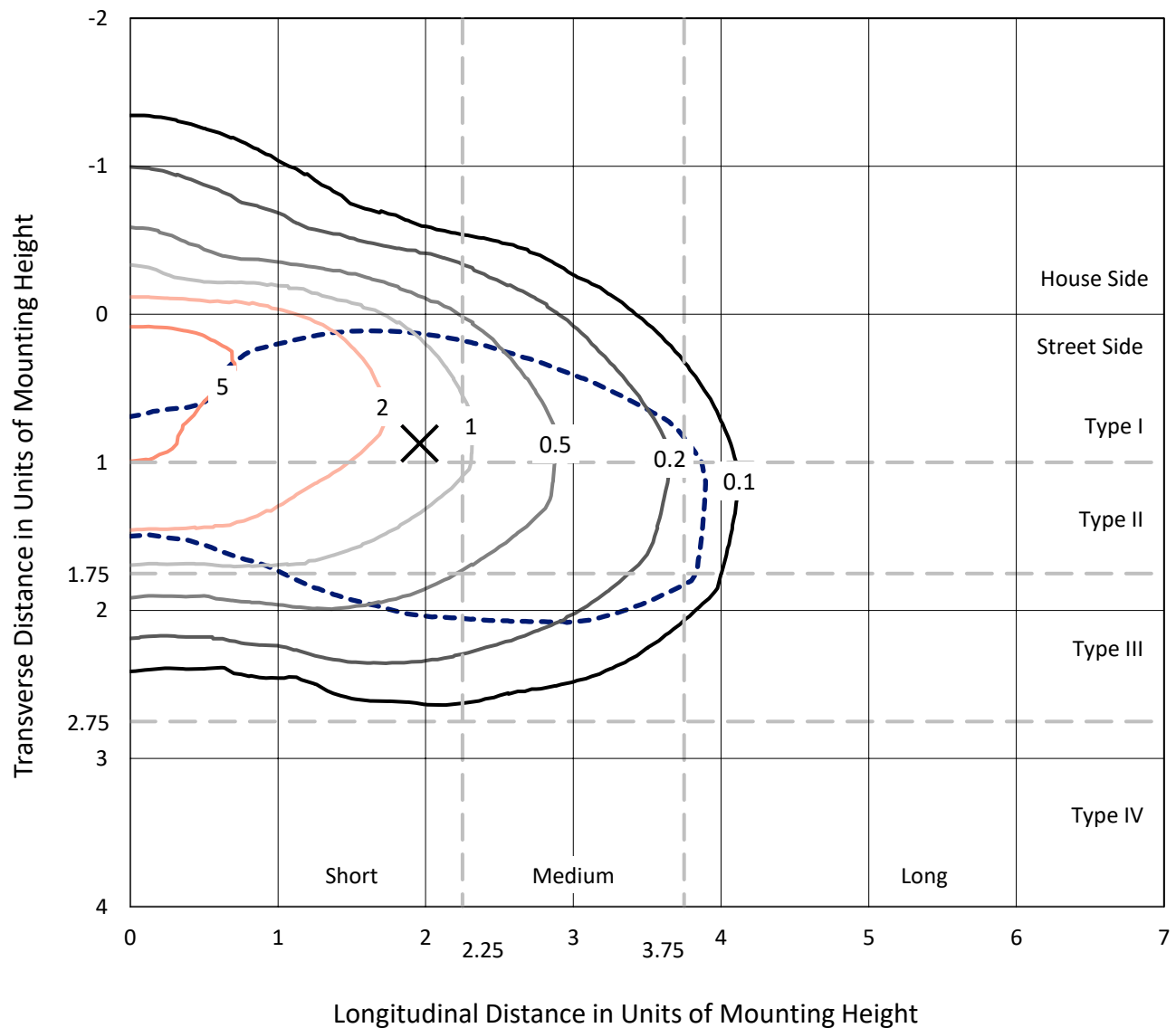


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Iso-Footcandle Lines of Horizontal Illumination

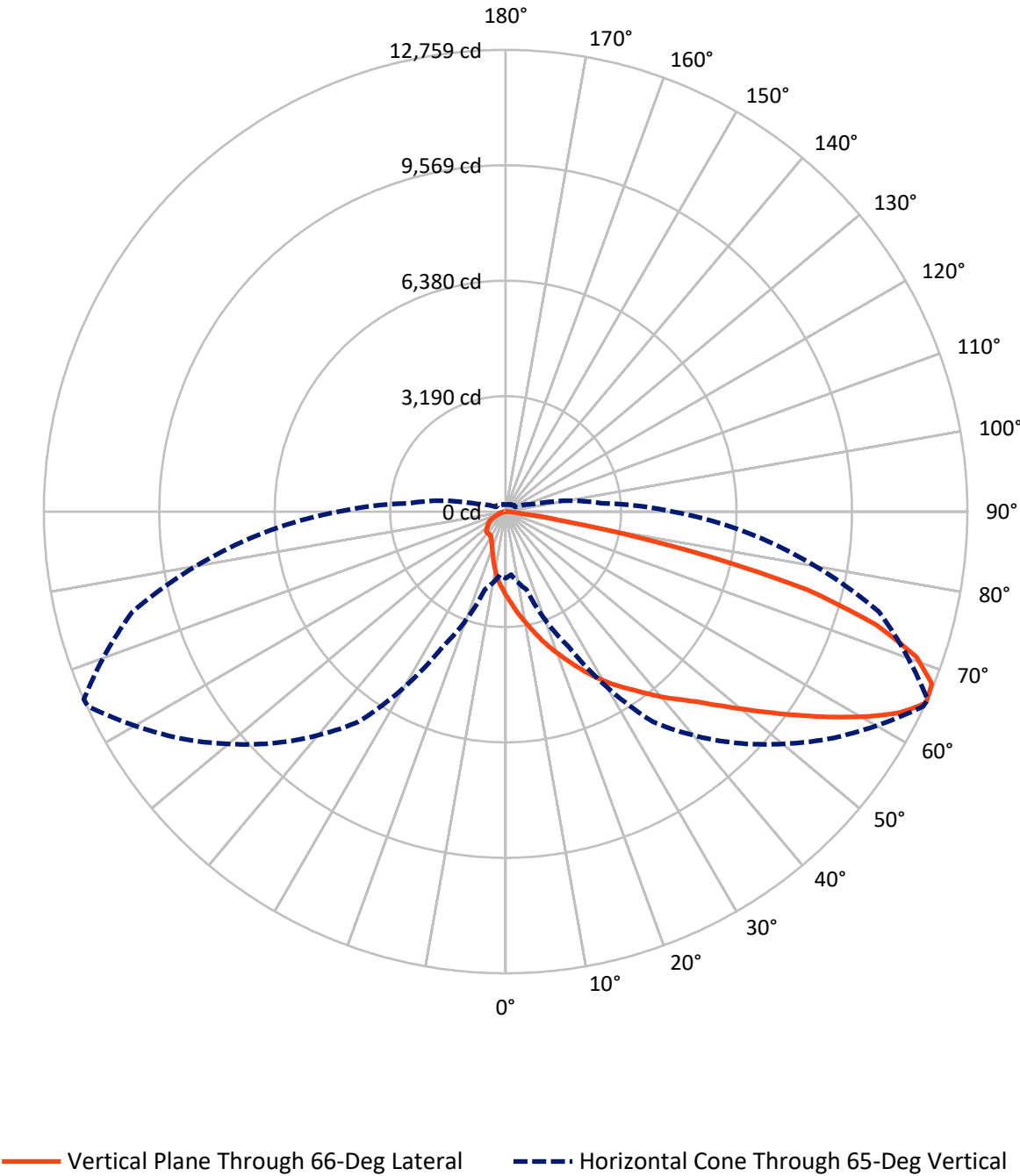
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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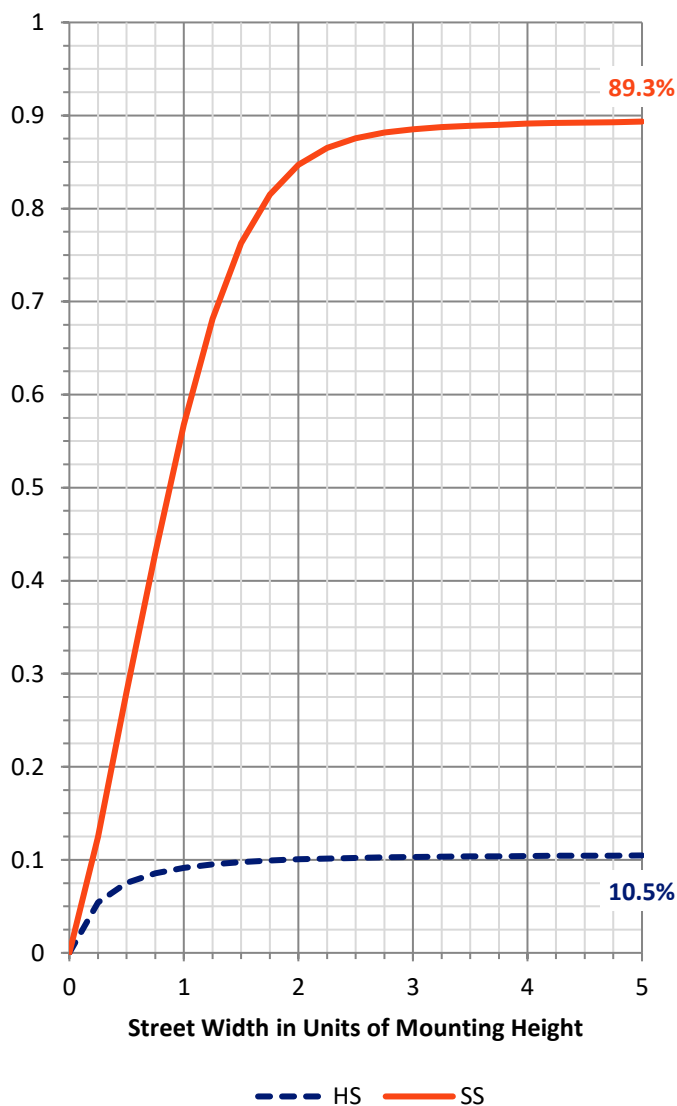
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1857.6	0.0	1857.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	15704.4	0.0	15704.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	17562.0	0.0	17562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.4	1.3
10°-20°	747.7	4.3
20°-30°	1352.8	7.7
30°-40°	2115.4	12.0
40°-50°	3209.1	18.3
50°-60°	4077.2	23.2
60°-70°	3809.8	21.7
70°-80°	1893.4	10.8
80°-90°	127.2	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°	17562.0	100.0
0°-180°	17562.0	100.0

Coefficient of Utilization



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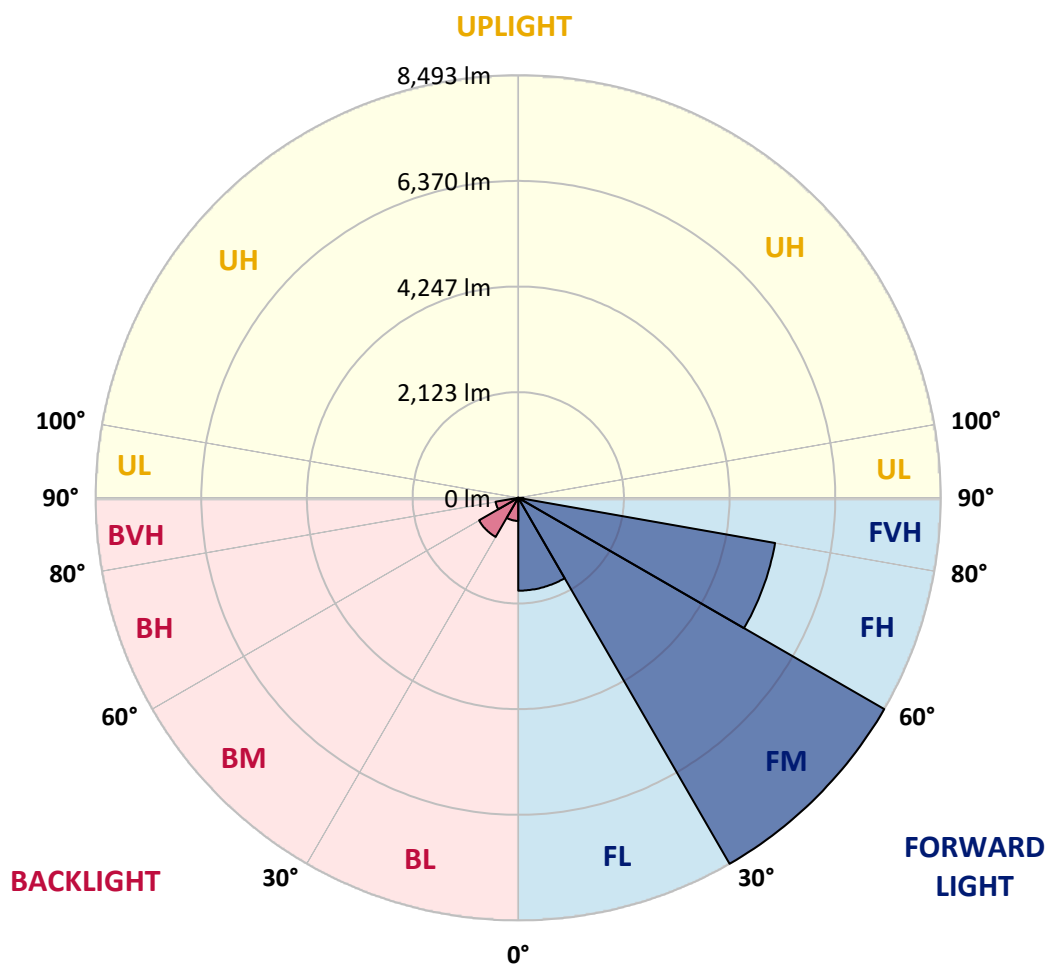
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1866.0	10.6			
FM	(30°-60°)	8493.2	48.4			
FH	(60°-80°)	5240.6	29.8			G3/7500
FVH	(80°-90°)	104.7	0.6			G2/225
BL	(0°-30°)	463.9	2.6	B1/500		
BM	(30°-60°)	908.5	5.2	B1/1000		
BH	(60°-80°)	462.6	2.6	B1/500		G1/500
BVH	(80°-90°)	22.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2
2.5°	2714.7	2736.8	2747.8	2751.5	2666.8	2630.0	2593.1	2508.4	2490.0	2442.1	2379.5
5°	3193.5	3223.0	3215.6	3200.9	3097.8	2979.9	2884.1	2725.7	2699.9	2585.8	2445.8
7.5°	3665.0	3690.8	3683.4	3628.2	3514.0	3348.2	3189.8	2957.8	2920.9	2736.8	2512.1
10°	4059.1	4081.2	4077.5	4022.3	3886.0	3683.4	3491.9	3182.5	3138.3	2876.7	2567.3
12.5°	4383.3	4412.7	4409.0	4372.2	4250.7	4029.7	3812.3	3440.3	3385.1	3046.2	2644.7
15°	4637.4	4674.3	4674.3	4659.5	4574.8	4390.6	4143.8	3723.9	3657.6	3241.4	2740.5
17.5°	4792.1	4821.6	4847.4	4873.2	4814.2	4674.3	4449.6	4007.6	3937.6	3432.9	2839.9
20°	4873.2	4902.6	4921.0	4976.3	4987.3	4917.4	4740.6	4287.5	4213.8	3650.3	2954.1
22.5°	5005.8	5031.5	5035.2	5083.1	5105.2	5123.6	5013.1	4563.8	4504.8	3889.7	3083.0
25°	5226.8	5256.2	5245.2	5267.3	5271.0	5293.1	5282.0	4880.5	4821.6	4162.3	3237.7
27.5°	5510.4	5547.2	5539.9	5517.8	5484.6	5466.2	5514.1	5201.0	5145.7	4434.8	3396.1
30°	5816.1	5860.3	5849.3	5805.1	5716.7	5639.3	5705.6	5503.0	5451.5	4714.8	3572.9
32.5°	6125.5	6177.1	6173.4	6099.7	5948.7	5816.1	5915.6	5786.6	5749.8	5016.8	3764.4
35°	6328.1	6394.4	6387.0	6342.8	6147.6	6033.4	6155.0	6077.6	6051.8	5385.2	4040.7
37.5°	6655.9	6725.9	6663.3	6552.8	6328.1	6269.2	6416.5	6405.5	6387.0	5775.6	4331.7
40°	7451.5	7554.7	7388.9	6935.9	6567.5	6516.0	6725.9	6770.1	6751.7	6162.4	4593.2
42.5°	8284.0	8438.7	8180.9	7554.7	7002.2	6814.3	7064.8	7127.4	7105.3	6493.9	4829.0
45°	8788.6	8854.9	8597.1	8110.9	7772.0	7175.3	7425.8	7528.9	7510.5	6891.7	5131.0
47.5°	9201.2	9175.4	8880.7	8552.9	8615.5	7683.6	7834.6	8037.2	8022.5	7330.0	5462.5
50°	9289.6	9230.6	9112.8	8906.5	9072.2	8199.3	8265.6	8615.5	8600.8	7816.2	5797.7
52.5°	8667.1	8589.7	8910.2	9083.3	9028.0	8575.0	8740.7	9249.1	9241.7	8342.9	6118.2
55°	7112.7	7050.1	7912.0	8807.0	8980.2	8840.2	9267.5	9908.4	9948.9	8902.8	6409.1
57.5°	5595.1	5528.8	6376.0	8114.6	8803.4	9083.3	9882.6	10663.5	10715.1	9510.6	6685.4
60°	4460.6	4361.2	5009.4	7024.3	8471.9	9271.2	10475.6	11492.3	11499.6	10066.8	6854.8
62.5°	3031.4	2920.9	3639.2	5643.0	7915.7	9300.6	10932.4	12206.8	12236.3	10483.0	6884.3
65°	1841.7	1749.6	2235.8	4121.7	7094.3	9050.1	10939.7	12733.6	12759.3	10674.5	6707.5
67.5°	1068.2	1031.4	1278.1	2567.3	5731.4	8376.1	10479.3	12652.5	12700.4	10593.5	6306.0
70°	622.5	618.8	710.9	1270.8	4044.4	7039.0	9451.6	11971.1	12041.1	10169.9	5690.9
72.5°	456.7	464.1	500.9	681.4	2342.7	5068.4	8004.1	10600.9	10707.7	9341.1	4814.2
75°	361.0	364.7	397.8	464.1	1230.3	2865.7	5996.6	8508.7	8593.4	7864.1	3760.8
77.5°	268.9	276.3	302.0	327.8	570.9	1315.0	3374.0	5241.5	5101.5	4317.0	1815.9
80°	195.2	213.6	224.7	235.7	302.0	508.3	1012.9	1827.0	1812.2	1885.9	858.2
82.5°	125.2	140.0	151.0	158.4	180.5	243.1	302.0	408.9	442.0	733.0	342.6
85°	55.3	62.6	70.0	84.7	77.4	84.7	125.2	81.0	70.0	110.5	62.6
87.5°	0.0	0.0	11.1	18.4	14.7	7.4	22.1	14.7	11.1	11.1	11.1
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°	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2	2324.2
2.5°	2346.3	2305.8	2221.1	2140.1	2092.2	2029.6	1974.3	1922.7	1919.1	1904.3	1878.5
5°	2375.8	2298.5	2140.1	1989.0	1874.9	1753.3	1650.2	1569.1	1539.7	1517.6	1488.1
7.5°	2405.3	2283.7	2048.0	1827.0	1646.5	1477.0	1355.5	1245.0	1211.8	1182.4	1164.0
10°	2416.3	2257.9	1941.2	1646.5	1410.7	1230.3	1101.3	1020.3	990.8	976.1	965.1
12.5°	2449.5	2243.2	1841.7	1477.0	1204.5	1038.7	946.6	898.8	887.7	876.7	865.6
15°	2493.7	2243.2	1742.3	1311.3	1042.4	909.8	854.6	821.4	814.0	810.4	803.0
17.5°	2541.6	2243.2	1646.5	1171.3	924.5	825.1	784.6	766.2	762.5	758.8	755.1
20°	2607.9	2246.9	1543.4	1049.8	839.8	762.5	729.3	707.2	703.5	699.8	699.8
22.5°	2674.2	2254.2	1443.9	957.7	784.6	714.6	674.1	652.0	644.6	644.6	644.6
25°	2758.9	2276.3	1351.8	880.3	736.7	670.4	618.8	600.4	596.7	596.7	593.0
27.5°	2858.3	2302.1	1270.8	821.4	688.8	618.8	567.2	548.8	541.5	541.5	537.8
30°	2965.1	2327.9	1204.5	777.2	640.9	567.2	519.4	497.3	489.9	493.6	489.9
32.5°	3083.0	2364.8	1152.9	747.7	596.7	523.0	478.8	453.1	449.4	449.4	445.7
35°	3281.9	2467.9	1145.5	733.0	559.9	489.9	445.7	419.9	416.2	416.2	412.5
37.5°	3495.6	2585.8	1178.7	725.6	530.4	460.4	419.9	394.1	390.4	390.4	390.4
40°	3676.0	2674.2	1215.5	725.6	512.0	434.6	397.8	375.7	375.7	375.7	375.7
42.5°	3797.6	2681.5	1208.2	725.6	497.3	416.2	383.1	361.0	361.0	364.7	361.0
45°	3978.1	2718.4	1178.7	714.6	486.2	401.5	368.3	349.9	346.2	349.9	349.9
47.5°	4191.7	2784.7	1149.2	670.4	482.5	386.8	357.3	335.2	331.5	335.2	331.5
50°	4394.3	2843.6	1134.5	611.4	475.2	372.0	342.6	320.5	316.8	320.5	316.8
52.5°	4563.8	2869.4	1108.7	570.9	456.7	357.3	327.8	305.7	298.4	302.0	302.0
55°	4700.0	2862.0	1071.9	537.8	423.6	342.6	309.4	291.0	279.9	279.9	276.3
57.5°	4825.3	2865.7	1038.7	504.6	386.8	320.5	294.7	272.6	257.8	254.2	250.5
60°	4873.2	2847.3	979.8	460.4	349.9	302.0	276.3	250.5	235.7	232.1	228.4
62.5°	4806.9	2781.0	902.4	383.1	316.8	279.9	257.8	232.1	217.3	213.6	210.0
65°	4619.0	2655.7	784.6	302.0	287.3	254.2	235.7	217.3	198.9	191.5	187.9
67.5°	4298.5	2475.3	637.2	243.1	254.2	232.1	221.0	198.9	176.8	169.4	165.8
70°	3841.8	2235.8	478.8	206.3	224.7	206.3	198.9	176.8	158.4	151.0	147.3
72.5°	3200.9	1849.1	335.2	176.8	195.2	180.5	173.1	158.4	140.0	128.9	128.9
75°	2420.0	1326.0	221.0	151.0	162.1	154.7	143.7	132.6	121.6	114.2	110.5
77.5°	1042.4	515.7	136.3	114.2	132.6	128.9	114.2	106.8	103.1	95.8	95.8
80°	449.4	210.0	84.7	84.7	95.8	92.1	88.4	81.0	81.0	77.4	73.7
82.5°	165.8	84.7	51.6	62.6	70.0	62.6	62.6	62.6	62.6	58.9	58.9
85°	40.5	25.8	25.8	36.8	40.5	36.8	40.5	36.8	36.8	36.8	33.2
87.5°	11.1	11.1	14.7	14.7	14.7	14.7	14.7	11.1	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)