

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: P836207

Luminaire Tested: **ARCH3-150-750-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15738 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

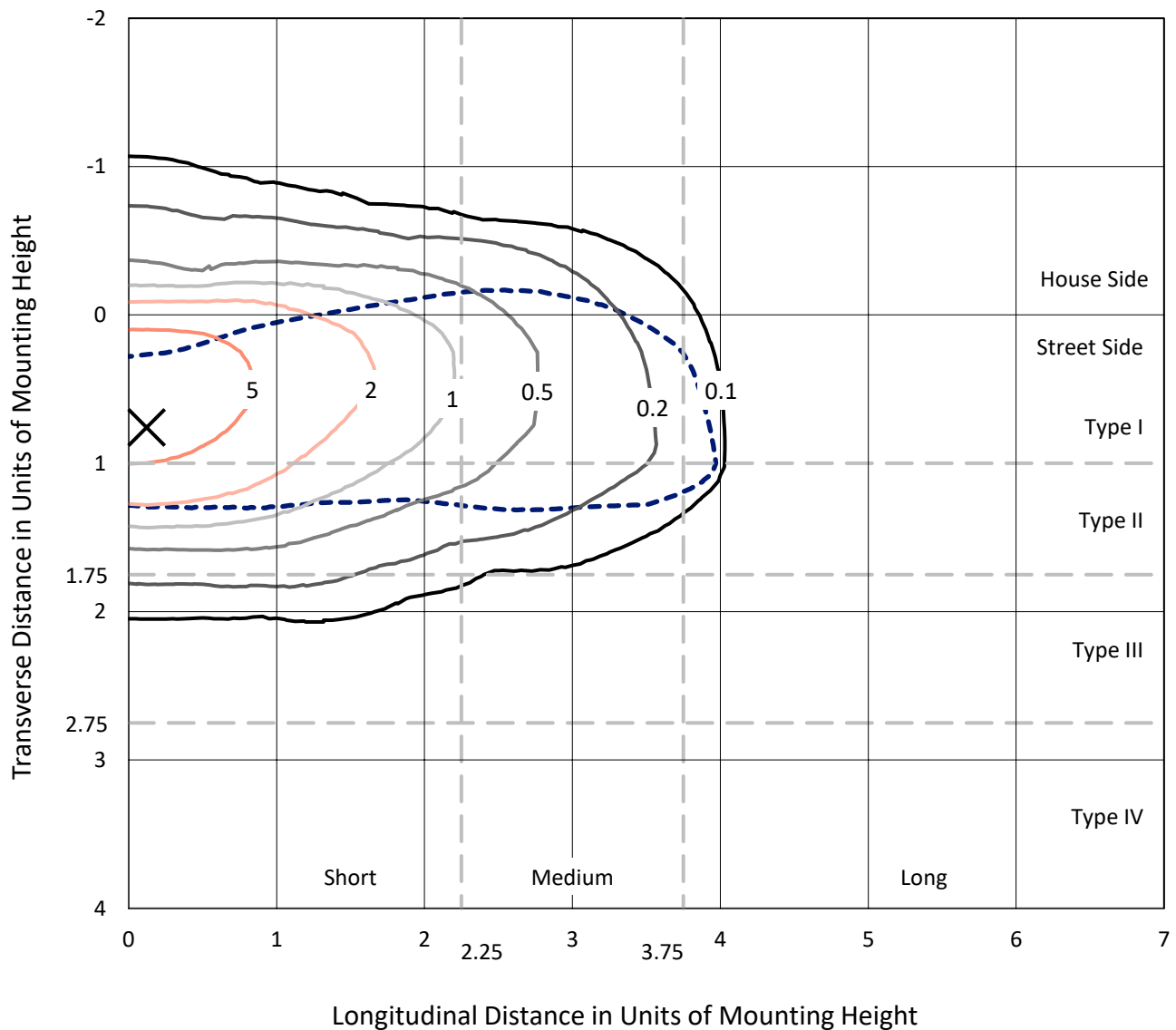
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

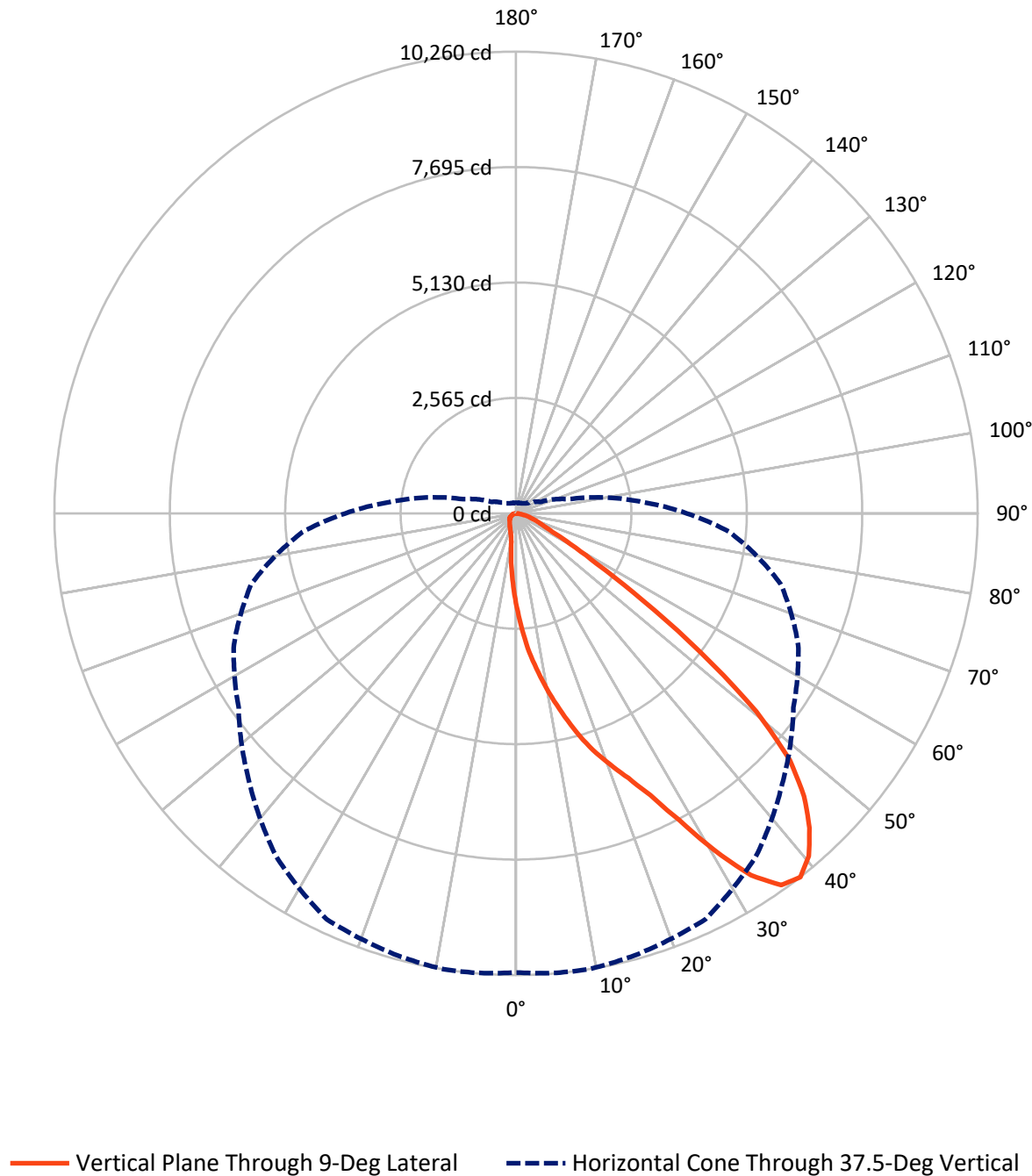
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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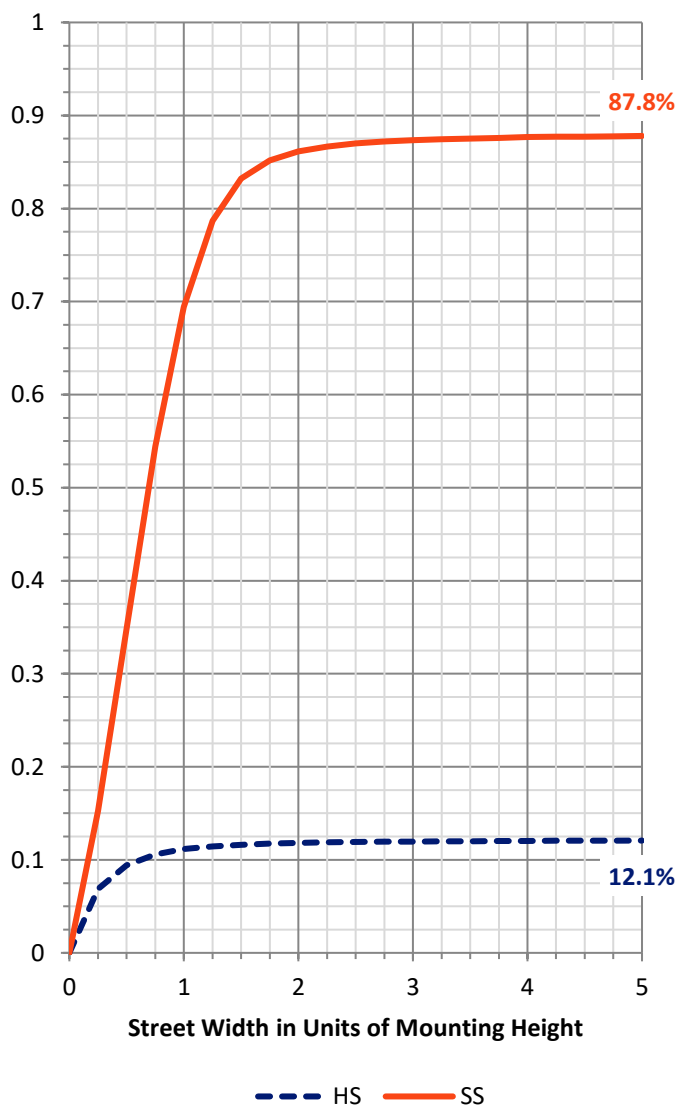
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1914.0	0.0	1914.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13824.0	0.0	13824.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	15738.0	0.0	15738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	1.3
10°-20°	726.8	4.6
20°-30°	1493.4	9.5
30°-40°	2639.7	16.8
40°-50°	3506.6	22.3
50°-60°	3325.8	21.1
60°-70°	2537.3	16.1
70°-80°	1230.1	7.8
80°-90°	69.2	0.4
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°	15738.0	100.0
0°-180°	15738.0	100.0

Coefficient of Utilization



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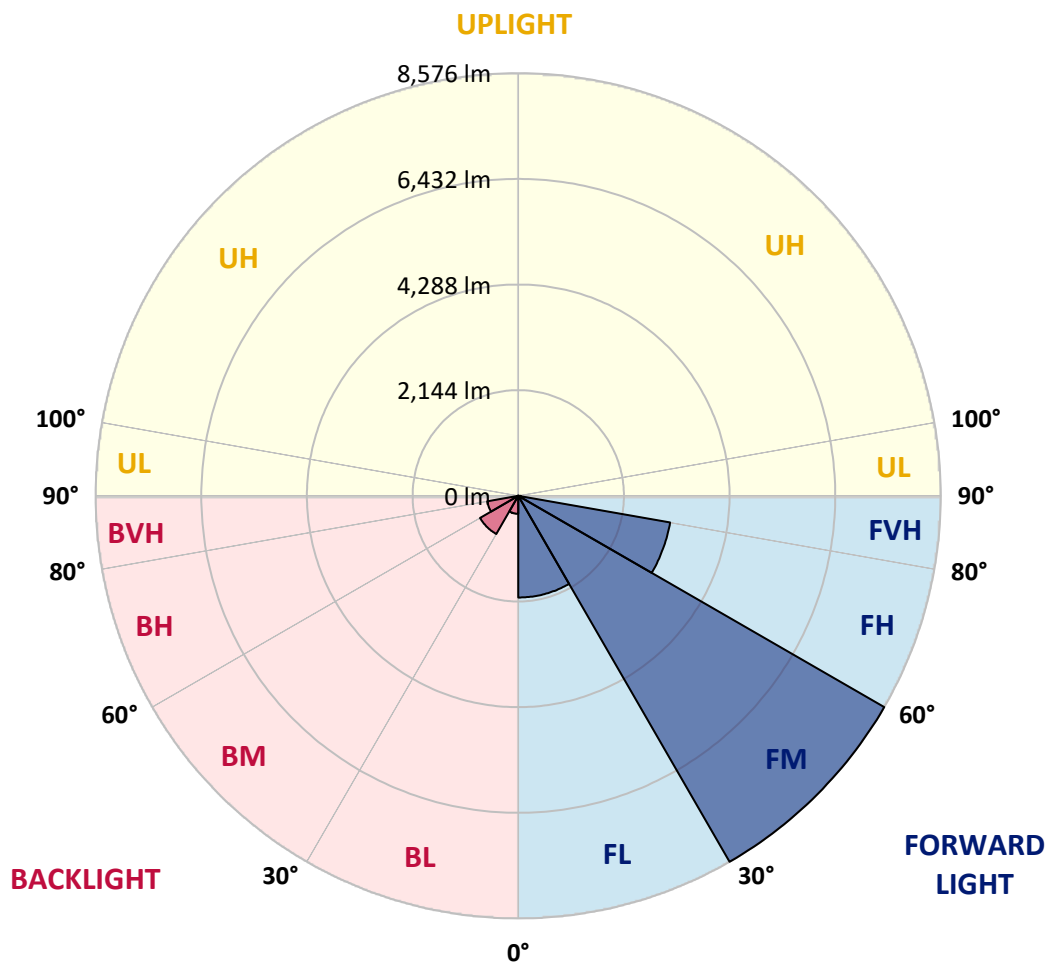
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2064.0	13.1			
FM	(30°-60°)	8576.5	54.5			
FH	(60°-80°)	3128.7	19.9			G2/5000
FVH	(80°-90°)	54.8	0.3			G1/100
BL	(0°-30°)	365.3	2.3	B1/500		
BM	(30°-60°)	895.6	5.7	B1/1000		
BH	(60°-80°)	638.7	4.1	B2/1000		G2/1000
BVH	(80°-90°)	14.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4
2.5°	2577.9	2532.6	2584.3	2577.9	2532.6	2503.6	2413.1	2384.0	2277.4	2199.9	2132.1
5°	3107.6	3062.4	3107.6	3094.7	3030.1	2959.0	2810.4	2713.5	2522.9	2355.0	2203.1
7.5°	3547.0	3547.0	3566.4	3569.6	3492.1	3382.2	3198.1	3052.7	2784.6	2526.2	2283.9
10°	4021.8	4025.1	4067.1	4038.0	3934.6	3786.0	3553.4	3369.3	3046.3	2707.1	2361.4
12.5°	4529.0	4532.2	4545.2	4532.2	4409.5	4218.9	3937.8	3695.6	3324.1	2913.8	2468.0
15°	5036.2	5039.4	5055.6	5033.0	4897.3	4674.4	4354.6	4057.4	3618.0	3146.4	2597.2
17.5°	5511.1	5517.5	5530.4	5501.4	5359.2	5094.3	4768.1	4409.5	3931.4	3395.1	2742.6
20°	5937.5	5943.9	5953.6	5914.8	5772.7	5507.8	5155.7	4781.0	4251.2	3650.3	2900.9
22.5°	6367.1	6373.6	6389.7	6338.0	6179.7	5876.1	5530.4	5142.8	4590.4	3931.4	3085.0
25°	6916.3	6922.7	6935.7	6861.4	6644.9	6289.6	5924.5	5527.2	4958.7	4248.0	3311.2
27.5°	7720.6	7714.2	7714.2	7578.5	7207.0	6745.1	6321.9	5918.1	5356.0	4587.2	3559.9
30°	8715.6	8699.4	8689.8	8505.6	7975.8	7258.7	6728.9	6283.1	5737.2	4945.7	3828.0
32.5°	9607.2	9607.2	9587.8	9394.0	8831.9	7950.0	7161.8	6638.5	6105.4	5307.5	4105.8
35°	10133.7	10156.4	10146.7	10001.3	9591.0	8693.0	7746.5	7064.9	6493.1	5685.5	4438.6
37.5°	10204.8	10250.0	10259.7	10172.5	9956.1	9300.3	8395.8	7526.8	6919.5	6092.5	4761.6
40°	9917.3	10014.2	10014.2	10001.3	9923.8	9587.8	8941.7	8063.1	7358.8	6515.7	5087.9
42.5°	9474.7	9574.9	9562.0	9610.4	9591.0	9520.0	9248.6	8563.8	7798.2	6951.8	5385.1
45°	8896.5	8999.9	8974.0	9061.3	9100.0	9177.5	9216.3	8912.7	8231.0	7426.7	5717.8
47.5°	7969.4	8143.8	8182.6	8337.6	8499.2	8741.4	8925.6	9038.6	8634.8	7937.1	6079.6
50°	6599.7	6845.2	6922.7	7249.0	7691.6	8192.3	8489.5	8883.6	8919.1	8460.4	6470.5
52.5°	4726.1	5010.3	5129.9	5666.1	6577.1	7449.3	7985.5	8541.2	9028.9	8961.1	6893.7
55°	3056.0	3298.2	3414.5	3918.5	5129.9	6499.6	7391.1	8098.6	8967.6	9419.8	7378.2
57.5°	1883.3	2022.2	2099.8	2532.6	3647.1	5281.7	6612.6	7691.6	8780.2	9817.2	7882.2
60°	1269.5	1350.3	1389.1	1592.6	2477.7	3947.5	5543.4	7265.2	8534.7	10085.3	8340.9
62.5°	843.1	869.0	907.7	1033.7	1634.6	2771.7	4257.7	6502.8	8350.6	10101.4	8680.1
65°	652.5	665.5	681.6	736.5	1007.9	1938.2	2994.6	5268.8	8076.0	9759.0	8786.7
67.5°	513.6	526.6	545.9	575.0	730.1	1314.8	2038.4	3860.3	7513.9	9222.8	8612.2
70°	403.8	413.5	426.4	452.3	568.5	953.0	1347.1	2564.9	6380.0	8712.4	8063.1
72.5°	319.8	329.5	342.4	368.3	461.9	697.8	923.9	1599.0	4919.9	8088.9	7006.7
75°	252.0	258.4	268.1	294.0	371.5	542.7	626.7	956.2	3343.5	6948.6	5459.4
77.5°	126.0	155.1	177.7	203.5	271.4	374.7	416.7	529.8	1411.7	3566.4	2603.7
80°	74.3	90.5	96.9	113.1	177.7	226.1	226.1	213.2	445.8	1369.7	1062.8
82.5°	42.0	58.1	61.4	64.6	106.6	129.2	103.4	77.5	90.5	458.7	310.1
85°	12.9	19.4	22.6	25.8	35.5	38.8	35.5	32.3	25.8	45.2	29.1
87.5°	0.0	0.0	0.0	0.0	3.2	6.5	6.5	6.5	9.7	9.7	9.7
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°	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4	2080.4
2.5°	2093.3	2051.3	1970.5	1896.2	1825.2	1773.5	1725.0	1679.8	1647.5	1621.7	1618.4
5°	2122.4	2038.4	1883.3	1738.0	1605.5	1495.7	1402.0	1327.7	1272.8	1234.0	1230.8
7.5°	2161.1	2031.9	1796.1	1579.7	1382.6	1224.3	1088.6	988.5	917.4	888.4	865.7
10°	2193.4	2025.5	1708.9	1421.4	1162.9	962.7	801.1	701.0	649.3	629.9	620.2
12.5°	2248.4	2031.9	1634.6	1276.0	972.3	736.5	613.8	558.9	536.2	520.1	516.9
15°	2329.1	2061.0	1563.5	1133.9	778.5	594.4	523.3	487.8	465.2	461.9	458.7
17.5°	2409.9	2086.8	1498.9	988.5	646.1	516.9	468.4	439.3	423.2	420.0	420.0
20°	2503.6	2119.1	1427.8	849.6	552.4	465.2	426.4	403.8	384.4	381.2	381.2
22.5°	2613.4	2164.4	1360.0	726.8	491.0	426.4	394.1	368.3	352.1	348.9	348.9
25°	2762.0	2232.2	1305.1	636.4	449.0	394.1	365.0	342.4	329.5	323.0	323.0
27.5°	2926.7	2325.9	1266.3	581.5	420.0	368.3	339.2	319.8	306.9	300.4	300.4
30°	3110.9	2429.3	1240.5	558.9	403.8	345.7	319.8	300.4	284.3	281.0	281.0
32.5°	3314.4	2548.8	1224.3	562.1	400.6	329.5	300.4	281.0	268.1	261.7	261.7
35°	3540.5	2681.2	1214.6	581.5	407.0	316.6	284.3	264.9	252.0	245.5	245.5
37.5°	3792.5	2836.3	1214.6	600.9	423.2	313.3	268.1	248.7	239.0	232.6	232.6
40°	4028.3	3001.0	1227.5	623.5	439.3	313.3	255.2	239.0	226.1	219.7	219.7
42.5°	4212.4	3094.7	1237.2	646.1	449.0	310.1	242.3	226.1	216.4	210.0	210.0
45°	4422.4	3194.9	1217.9	655.8	449.0	303.7	232.6	216.4	206.7	200.3	200.3
47.5°	4655.0	3317.6	1214.6	662.2	439.3	290.7	222.9	206.7	200.3	193.8	193.8
50°	4890.8	3453.3	1221.1	659.0	426.4	271.4	210.0	200.3	190.6	184.1	184.1
52.5°	5158.9	3595.4	1234.0	652.5	397.3	248.7	200.3	190.6	180.9	174.4	171.2
55°	5456.1	3750.5	1259.9	639.6	358.6	226.1	190.6	180.9	168.0	161.5	158.3
57.5°	5798.6	3941.1	1288.9	613.8	316.6	206.7	180.9	168.0	148.6	138.9	135.7
60°	6124.8	4157.5	1321.2	552.4	274.6	187.4	171.2	151.8	132.4	126.0	122.8
62.5°	6431.7	4370.7	1337.4	442.6	232.6	171.2	161.5	138.9	119.5	113.1	109.8
65°	6628.8	4603.3	1301.8	300.4	190.6	158.3	148.6	129.2	109.8	100.1	100.1
67.5°	6641.7	4713.1	1179.1	197.1	155.1	142.1	135.7	116.3	96.9	90.5	87.2
70°	6315.4	4548.4	901.3	155.1	129.2	122.8	122.8	103.4	84.0	77.5	74.3
72.5°	5566.0	4028.3	575.0	126.0	109.8	103.4	103.4	87.2	74.3	64.6	61.4
75°	4393.3	3107.6	306.9	103.4	90.5	87.2	80.8	71.1	61.4	54.9	51.7
77.5°	2019.0	1369.7	142.1	74.3	67.8	67.8	61.4	51.7	48.5	42.0	42.0
80°	797.9	465.2	71.1	48.5	45.2	45.2	45.2	35.5	35.5	29.1	25.8
82.5°	219.7	96.9	35.5	29.1	29.1	29.1	25.8	22.6	22.6	19.4	19.4
85°	22.6	16.2	16.2	16.2	16.2	12.9	12.9	9.7	6.5	6.5	6.5
87.5°	9.7	9.7	9.7	9.7	9.7	6.5	3.2	0.0	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)