

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: P841255

Luminaire Tested: **ARCH4-150-740-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841255
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: ARCH4-150-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1230mA 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: 18121 lumens
Efficiency: N/A
Efficacy: 120.2 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

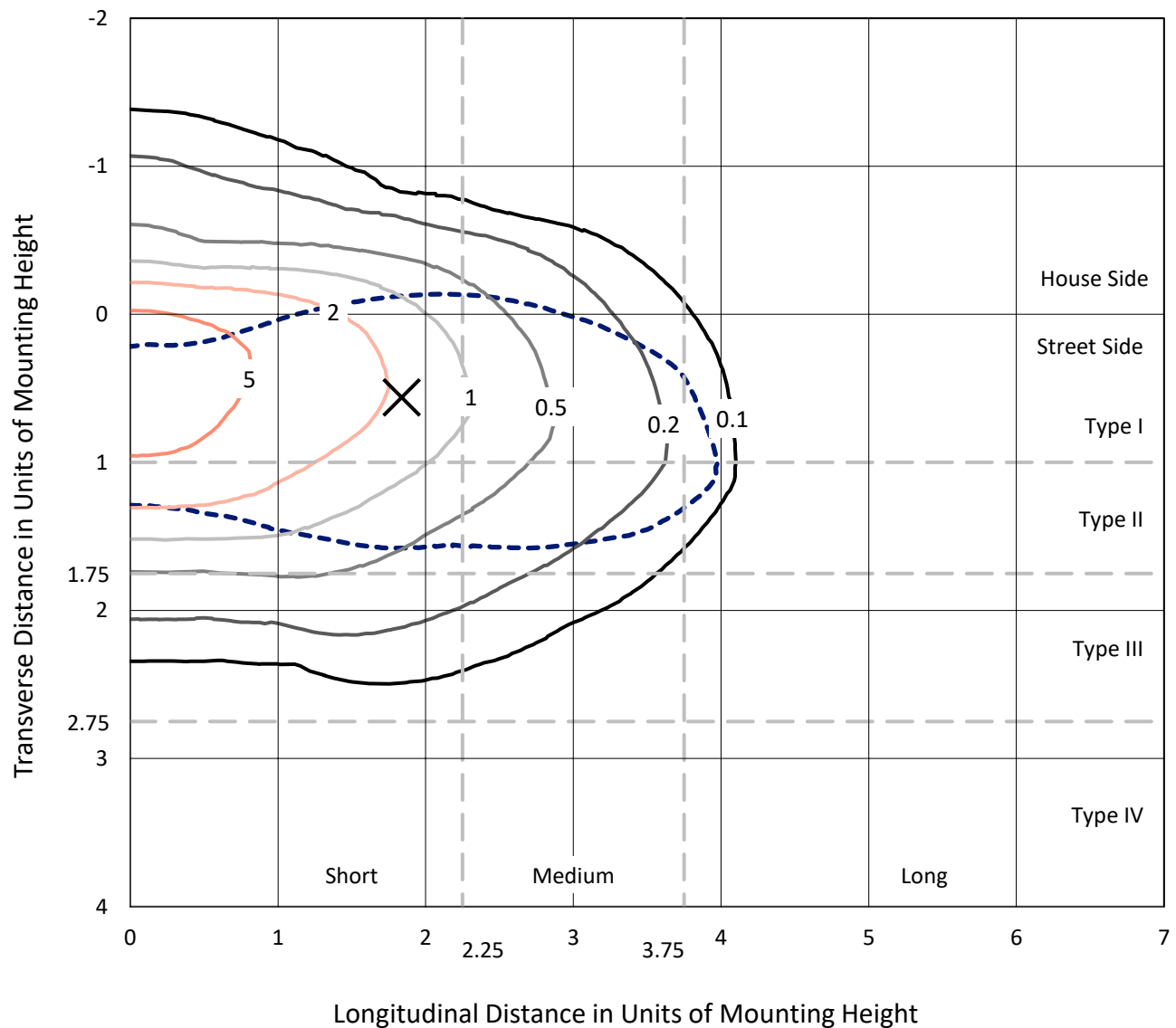
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

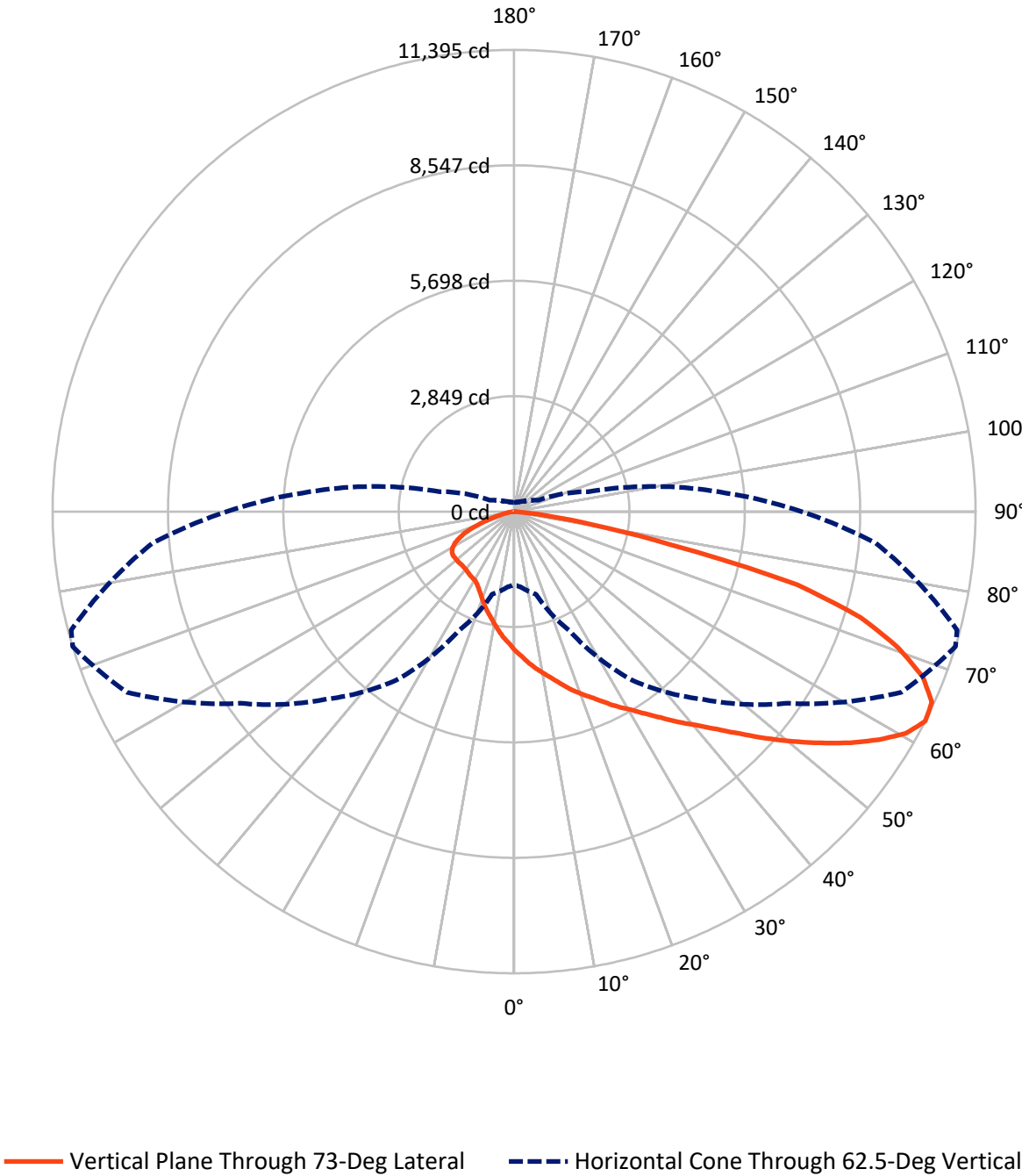
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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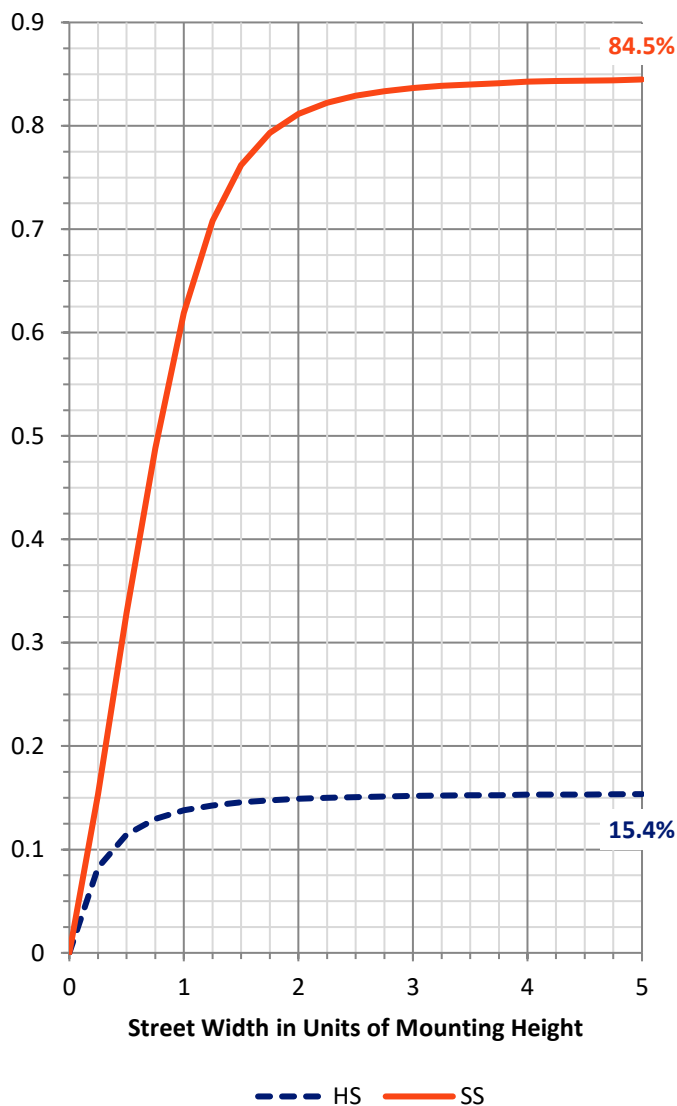
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2809.0	0.0	2809.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15312.0	0.0	15312.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	18121.0	0.0	18121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.5	1.8
10°-20°	1000.3	5.5
20°-30°	1664.9	9.2
30°-40°	2512.1	13.9
40°-50°	3511.3	19.4
50°-60°	3878.5	21.4
60°-70°	3378.7	18.6
70°-80°	1706.7	9.4
80°-90°	137.0	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°	18121.0	100.0
0°-180°	18121.0	100.0

Coefficient of Utilization



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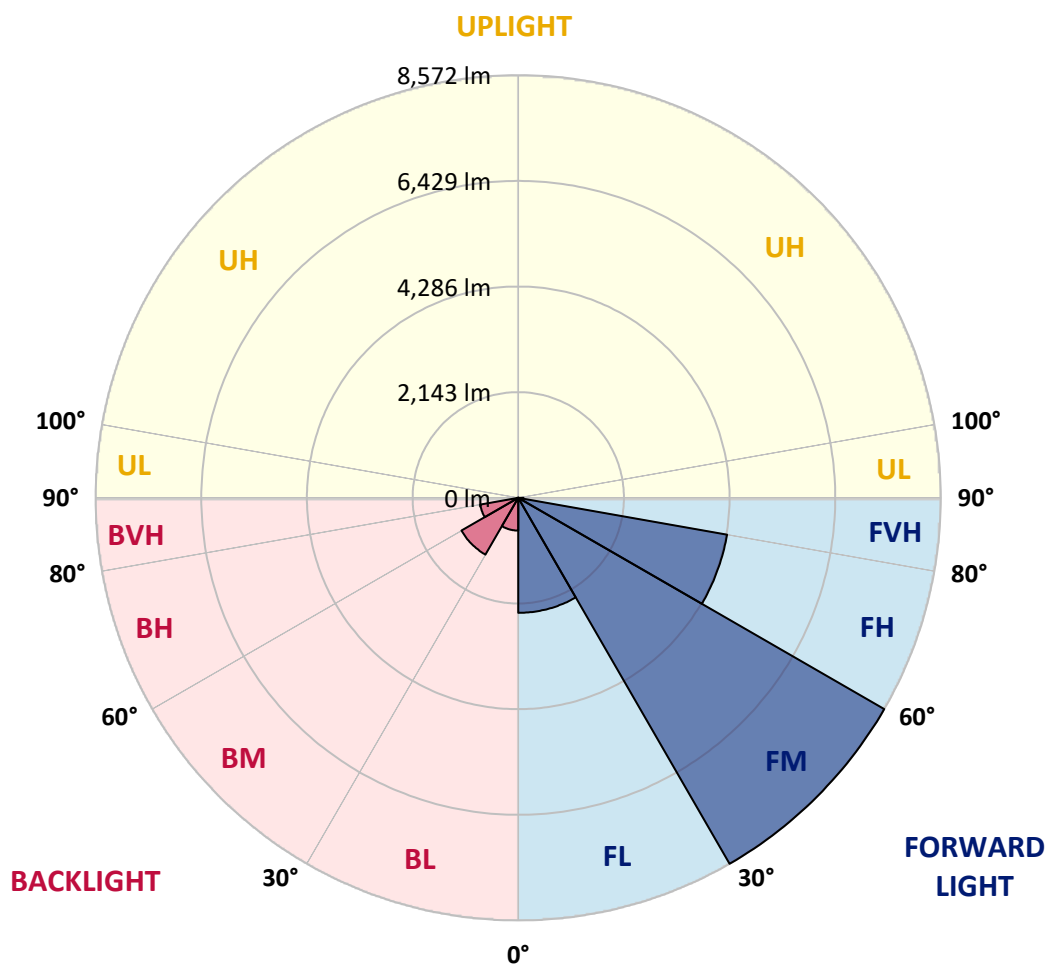
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2332.7	12.9			
FM	(30°-60°)	8571.9	47.3			
FH	(60°-80°)	4301.3	23.7			G2/5000
FVH	(80°-90°)	106.0	0.6			G2/225
BL	(0°-30°)	663.9	3.7	B2/1000		
BM	(30°-60°)	1330.1	7.3	B2/2500		
BH	(60°-80°)	784.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	31.0	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°	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2
2.5°	3905.1	3948.5	3924.8	3940.6	3861.6	3810.3	3751.1	3636.6	3573.4	3565.5	3490.5
5°	4477.6	4525.0	4485.5	4473.7	4335.5	4217.0	4082.8	3881.4	3747.1	3723.4	3557.6
7.5°	5050.1	5093.6	5046.2	5010.7	4825.1	4615.8	4418.4	4122.2	3913.0	3873.5	3612.9
10°	5452.9	5492.4	5456.8	5421.3	5227.8	5014.6	4734.3	4347.3	4063.0	3999.8	3648.4
12.5°	5756.9	5780.6	5764.8	5733.2	5551.6	5322.6	5054.1	4600.0	4232.8	4153.8	3703.7
15°	6005.7	6045.2	6025.4	6001.7	5828.0	5599.0	5342.3	4864.6	4430.2	4331.5	3786.6
17.5°	6171.5	6199.2	6203.1	6203.1	6049.1	5824.0	5575.3	5105.4	4627.6	4501.3	3865.6
20°	6246.5	6278.1	6297.9	6329.5	6203.1	6009.6	5756.9	5310.7	4813.2	4671.1	3940.6
22.5°	6282.1	6309.7	6361.0	6432.1	6329.5	6167.6	5934.6	5500.3	4998.8	4848.8	4027.5
25°	6309.7	6345.2	6420.3	6554.5	6483.4	6345.2	6143.9	5717.4	5219.9	5065.9	4153.8
27.5°	6384.7	6428.2	6499.2	6661.1	6574.3	6507.1	6365.0	5950.4	5452.9	5294.9	4307.8
30°	6645.3	6680.9	6676.9	6779.6	6673.0	6653.2	6554.5	6175.5	5677.9	5520.0	4489.4
32.5°	7119.2	7154.7	7067.8	7028.3	6795.4	6799.3	6759.8	6416.3	5946.4	5784.6	4698.7
35°	7628.5	7668.0	7553.5	7486.4	7095.5	6981.0	7000.7	6716.4	6246.5	6084.6	4959.3
37.5°	8082.6	8130.0	8031.3	7932.5	7537.7	7273.1	7269.2	7052.0	6590.1	6424.2	5247.6
40°	8331.3	8386.6	8445.8	8390.6	7976.0	7683.8	7557.4	7395.5	6929.6	6759.8	5559.5
42.5°	8449.8	8603.8	8710.4	8674.9	8335.3	8039.2	7889.1	7754.9	7344.2	7178.4	5930.7
45°	8118.1	8122.1	8347.1	8540.6	8477.4	8280.0	8252.4	8157.6	7818.0	7660.1	6349.2
47.5°	7703.5	7671.9	7829.9	8173.4	8351.1	8402.4	8564.3	8603.8	8359.0	8201.0	6775.6
50°	6708.5	6728.3	7241.6	7735.1	8082.6	8414.3	8785.4	9061.8	8915.7	8765.7	7225.8
52.5°	5456.8	5504.2	6092.5	7178.4	7727.2	8295.8	8915.7	9519.8	9484.3	9342.2	7675.9
55°	4374.9	4450.0	5073.8	6250.5	7273.1	8031.3	8971.0	9938.4	10072.6	9942.3	8118.1
57.5°	3344.4	3423.4	3948.5	5156.7	6692.7	7600.9	8931.5	10305.6	10621.5	10538.6	8524.8
60°	2519.1	2598.1	2933.7	4181.5	5966.2	7119.2	8734.1	10546.5	11115.0	11028.2	8821.0
62.5°	1804.5	1867.6	2116.4	3253.6	5081.7	6546.6	8248.4	10550.4	11395.4	11324.3	8963.1
65°	1299.1	1299.1	1500.4	2321.7	4252.5	5859.6	7514.0	10064.7	11336.2	11316.4	8864.4
67.5°	935.8	943.7	1105.6	1622.8	3391.8	5026.4	6562.4	9200.0	10878.1	10976.8	8509.0
70°	663.3	683.1	758.1	1133.2	2562.6	3968.2	5543.7	8066.8	10052.9	10226.6	7822.0
72.5°	513.3	525.2	576.5	789.7	1871.6	2949.5	4418.4	6803.3	8951.3	9148.7	6886.2
75°	394.9	406.7	446.2	580.4	1342.5	2069.0	3139.1	5279.1	7217.9	7569.3	5531.9
77.5°	288.2	304.0	331.7	422.5	781.8	1314.9	1903.2	2969.3	3984.0	4149.9	2898.2
80°	134.2	154.0	193.5	272.4	422.5	619.9	675.2	1145.1	1915.0	2001.9	1571.5
82.5°	75.0	94.8	110.6	165.8	213.2	221.1	229.0	288.2	722.6	797.6	659.4
85°	35.5	47.4	51.3	71.1	71.1	63.2	75.0	55.3	118.5	142.1	138.2
87.5°	0.0	3.9	7.9	19.7	15.8	11.8	11.8	11.8	11.8	15.8	11.8
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°	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2
2.5°	3454.9	3403.6	3285.2	3182.5	3115.4	3056.1	2977.2	2941.6	2878.5	2890.3	2854.8
5°	3474.7	3379.9	3170.6	2977.2	2835.0	2708.7	2570.5	2491.5	2404.6	2396.7	2369.1
7.5°	3486.5	3340.4	3040.3	2767.9	2550.7	2357.3	2171.7	2069.0	1962.4	1938.7	1915.0
10°	3474.7	3281.2	2906.1	2550.7	2262.5	2021.6	1812.4	1682.1	1571.5	1543.9	1520.2
12.5°	3486.5	3249.6	2779.7	2349.4	2005.8	1733.4	1496.5	1362.2	1259.6	1231.9	1216.1
15°	3514.2	3229.9	2673.1	2167.7	1776.8	1472.8	1239.8	1125.3	1042.4	1014.8	1006.9
17.5°	3537.9	3210.1	2558.6	1990.0	1547.8	1243.8	1042.4	947.6	876.6	848.9	841.0
20°	3569.4	3182.5	2444.1	1820.3	1346.4	1062.1	884.5	801.5	746.3	726.5	722.6
22.5°	3597.1	3162.8	2337.5	1650.5	1160.9	916.1	766.0	698.9	659.4	639.7	639.7
25°	3668.2	3170.6	2246.7	1492.5	1022.7	801.5	675.2	623.9	592.3	580.4	580.4
27.5°	3751.1	3202.2	2175.6	1358.3	904.2	714.7	612.0	568.6	552.8	537.0	540.9
30°	3869.5	3265.4	2128.2	1247.7	817.3	647.6	560.7	529.1	513.3	509.4	509.4
32.5°	4019.6	3368.1	2124.3	1176.7	754.2	596.2	525.2	497.5	489.6	485.7	485.7
35°	4197.3	3458.9	2100.6	1145.1	714.7	560.7	497.5	477.8	473.8	473.8	473.8
37.5°	4410.5	3608.9	2084.8	1101.6	694.9	540.9	477.8	462.0	462.0	462.0	462.0
40°	4631.6	3731.3	2061.1	1062.1	687.0	529.1	465.9	446.2	446.2	446.2	446.2
42.5°	4896.1	3909.0	2053.2	1042.4	675.2	521.2	450.1	426.4	430.4	430.4	434.3
45°	5216.0	4110.4	2049.3	1022.7	671.2	513.3	434.3	406.7	410.6	406.7	406.7
47.5°	5539.8	4343.4	2061.1	1010.8	667.3	505.4	422.5	387.0	387.0	383.0	383.0
50°	5879.3	4556.6	2069.0	999.0	659.4	489.6	402.7	371.2	363.3	355.4	359.3
52.5°	6199.2	4754.0	2073.0	979.2	635.7	465.9	387.0	351.4	339.6	327.7	331.7
55°	6519.0	4943.5	2080.9	955.5	604.1	442.2	367.2	331.7	315.9	300.1	300.1
57.5°	6807.2	5109.4	2061.1	896.3	568.6	418.5	347.5	308.0	284.3	268.5	268.5
60°	7004.6	5227.8	2001.9	809.4	521.2	390.9	327.7	284.3	256.7	244.8	244.8
62.5°	7099.4	5247.6	1895.3	667.3	462.0	363.3	304.0	260.6	236.9	229.0	229.0
65°	7008.6	5160.7	1729.4	501.5	398.8	331.7	280.3	240.9	217.2	197.4	197.4
67.5°	6692.7	4915.9	1500.4	379.1	339.6	300.1	256.7	221.1	193.5	177.7	177.7
70°	6057.0	4406.5	1160.9	304.0	288.2	260.6	233.0	197.4	173.7	154.0	154.0
72.5°	5223.9	3735.3	817.3	244.8	244.8	221.1	197.4	173.7	150.0	134.2	134.2
75°	4007.7	2764.0	548.8	197.4	201.4	185.6	161.9	142.1	126.4	114.5	114.5
77.5°	2187.5	1366.2	335.6	146.1	150.0	142.1	126.4	114.5	106.6	94.8	94.8
80°	1062.1	600.2	193.5	102.7	106.6	102.7	94.8	82.9	82.9	75.0	75.0
82.5°	446.2	225.1	102.7	71.1	71.1	63.2	59.2	59.2	59.2	55.3	55.3
85°	110.6	43.4	43.4	39.5	39.5	39.5	35.5	35.5	35.5	27.6	31.6
87.5°	15.8	15.8	15.8	15.8	15.8	15.8	11.8	3.9	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)