

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: P842013

Luminaire Tested: **ARCH4-260-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842013
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: ARCH4-260-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1010mA 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: 22418 lumens
Efficiency: N/A
Efficacy: 86.5 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): 259.2
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



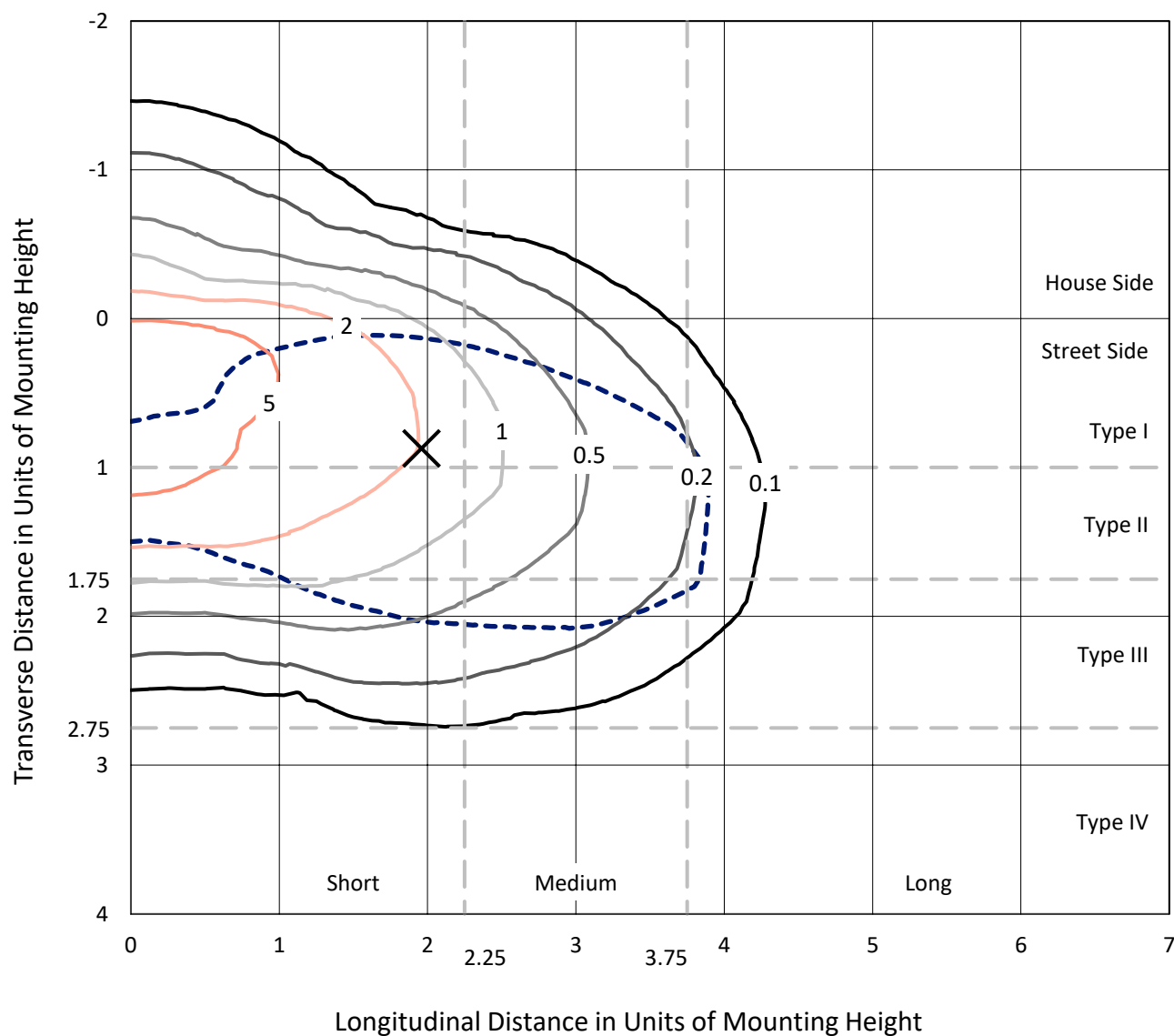
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

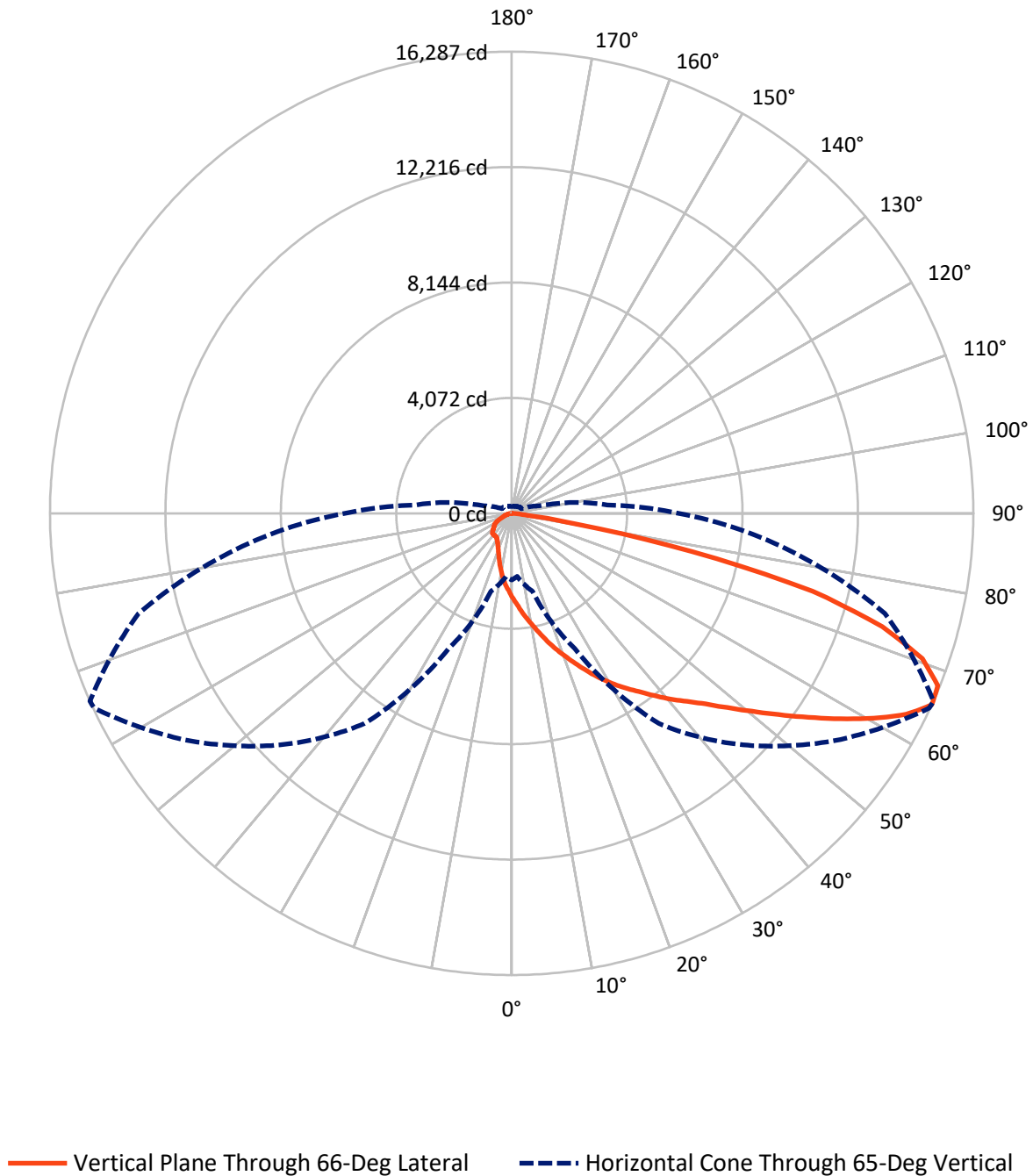


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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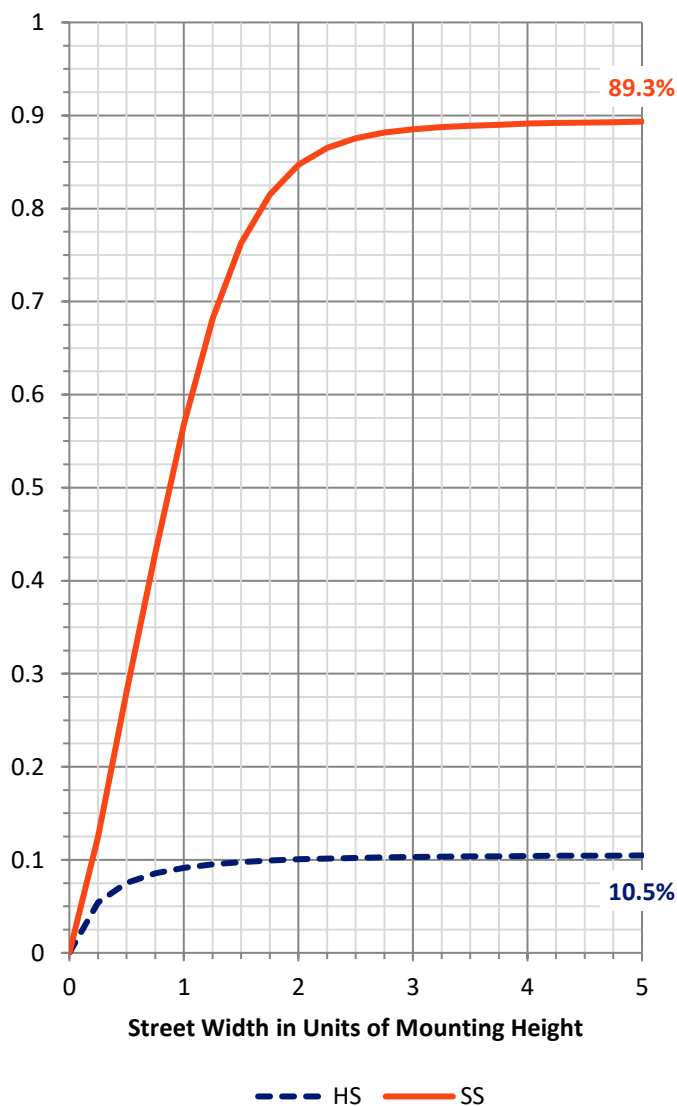
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2371.2	0.0	2371.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	20046.8	0.0	20046.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	22418.0	0.0	22418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.8	1.3
10°-20°	954.4	4.3
20°-30°	1726.9	7.7
30°-40°	2700.3	12.0
40°-50°	4096.4	18.3
50°-60°	5204.6	23.2
60°-70°	4863.2	21.7
70°-80°	2417.0	10.8
80°-90°	162.4	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°	22418.0	100.0
0°-180°	22418.0	100.0

Coefficient of Utilization



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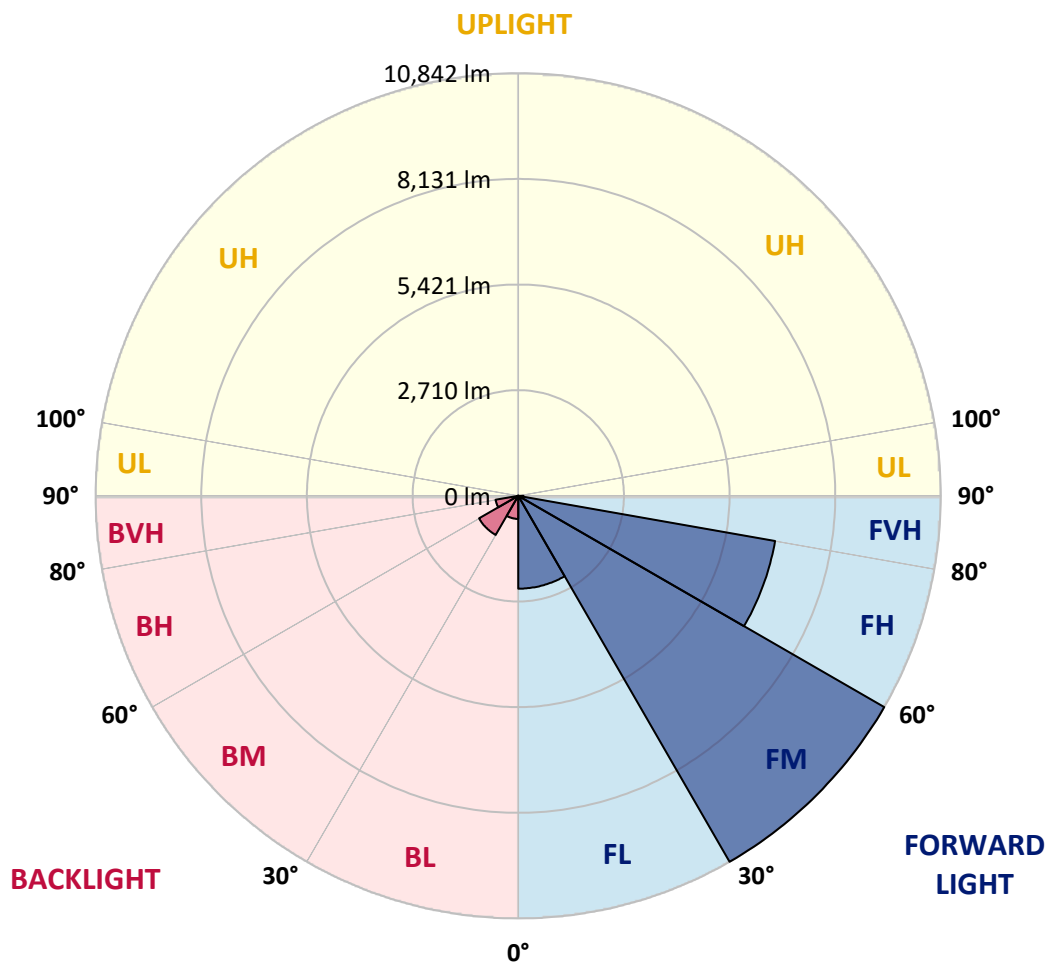
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2381.9	10.6			
FM	(30°-60°)	10841.6	48.4			
FH	(60°-80°)	6689.6	29.8			G3/7500
FVH	(80°-90°)	133.6	0.6			G2/225
BL	(0°-30°)	592.2	2.6	B2/1000		
BM	(30°-60°)	1159.8	5.2	B2/2500		
BH	(60°-80°)	590.5	2.6	B2/1000		G2/1000
BVH	(80°-90°)	28.7	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°	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9
2.5°	3465.3	3493.5	3507.6	3512.3	3404.2	3357.2	3310.1	3202.0	3178.5	3117.4	3037.4
5°	4076.5	4114.2	4104.8	4086.0	3954.3	3803.8	3681.6	3479.4	3446.5	3300.7	3122.1
7.5°	4678.4	4711.3	4701.9	4631.4	4485.6	4274.0	4071.8	3775.6	3728.6	3493.5	3206.7
10°	5181.5	5209.7	5205.0	5134.5	4960.5	4701.9	4457.4	4062.4	4006.0	3672.2	3277.2
12.5°	5595.3	5632.9	5628.2	5581.2	5426.0	5143.9	4866.5	4391.6	4321.0	3888.5	3376.0
15°	5919.7	5966.7	5966.7	5947.9	5839.8	5604.7	5289.6	4753.6	4669.0	4137.7	3498.2
17.5°	6117.2	6154.8	6187.7	6220.6	6145.4	5966.7	5679.9	5115.7	5026.3	4382.2	3625.2
20°	6220.6	6258.2	6281.7	6352.3	6366.4	6277.0	6051.3	5473.0	5379.0	4659.6	3770.9
22.5°	6389.9	6422.8	6427.5	6488.6	6516.8	6540.3	6399.3	5825.7	5750.4	4965.2	3935.5
25°	6672.0	6709.6	6695.5	6723.7	6728.4	6756.6	6742.5	6230.0	6154.8	5313.1	4133.0
27.5°	7034.0	7081.1	7071.7	7043.4	7001.1	6977.6	7038.7	6639.1	6568.6	5661.1	4335.2
30°	7424.3	7480.7	7466.6	7410.2	7297.3	7198.6	7283.2	7024.6	6958.8	6018.4	4560.8
32.5°	7819.3	7885.1	7880.4	7786.3	7593.6	7424.3	7551.3	7386.7	7339.7	6404.0	4805.3
35°	8077.9	8162.5	8153.1	8096.7	7847.5	7701.7	7856.9	7758.1	7725.2	6874.2	5158.0
37.5°	8496.3	8585.7	8505.7	8364.7	8077.9	8002.6	8190.7	8176.6	8153.1	7372.6	5529.4
40°	9511.9	9643.6	9432.0	8853.7	8383.5	8317.7	8585.7	8642.1	8618.6	7866.3	5863.3
42.5°	10574.6	10772.1	10442.9	9643.6	8938.3	8698.5	9018.2	9098.2	9070.0	8289.5	6164.2
45°	11218.7	11303.4	10974.2	10353.6	9921.0	9159.3	9479.0	9610.7	9587.2	8797.3	6549.7
47.5°	11745.3	11712.4	11336.3	10917.8	10997.7	9808.2	10000.9	10259.5	10240.7	9356.8	6972.9
50°	11858.2	11783.0	11632.5	11369.2	11580.8	10466.4	10551.1	10997.7	10978.9	9977.4	7400.8
52.5°	11063.6	10964.8	11373.9	11594.9	11524.4	10946.0	11157.6	11806.5	11797.1	10649.8	7809.9
55°	9079.4	8999.4	10099.7	11242.2	11463.2	11284.6	11830.0	12648.1	12699.8	11364.5	8181.3
57.5°	7142.2	7057.6	8139.0	10358.3	11237.5	11594.9	12615.2	13612.0	13677.8	12140.3	8533.9
60°	5694.0	5567.1	6394.6	8966.5	10814.4	11834.7	13372.2	14669.9	14679.3	12850.3	8750.2
62.5°	3869.7	3728.6	4645.5	7203.3	10104.4	11872.3	13955.2	15582.1	15619.7	13381.6	8787.9
65°	2351.0	2233.4	2854.1	5261.4	9055.9	11552.6	13964.6	16254.5	16287.4	13626.1	8562.2
67.5°	1363.6	1316.5	1631.6	3277.2	7316.2	10692.1	13376.9	16151.0	16212.2	13522.7	8049.7
70°	794.6	789.9	907.5	1622.2	5162.7	8985.3	12065.1	15281.2	15370.5	12981.9	7264.4
72.5°	583.0	592.4	639.5	869.9	2990.4	6469.8	10217.2	13532.1	13668.4	11924.0	6145.4
75°	460.8	465.5	507.8	592.4	1570.4	3658.1	7654.7	10861.4	10969.5	10038.6	4800.6
77.5°	343.2	352.6	385.6	418.5	728.8	1678.6	4306.9	6690.8	6512.1	5510.6	2318.0
80°	249.2	272.7	286.8	300.9	385.6	648.9	1293.0	2332.1	2313.3	2407.4	1095.5
82.5°	159.9	178.7	192.8	202.2	230.4	310.3	385.6	521.9	564.2	935.7	437.3
85°	70.5	79.9	89.3	108.1	98.7	108.1	159.9	103.4	89.3	141.1	79.9
87.5°	0.0	0.0	14.1	23.5	18.8	9.4	28.2	18.8	14.1	14.1	14.1
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°	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9
2.5°	2995.1	2943.4	2835.2	2731.8	2670.7	2590.7	2520.2	2454.4	2449.7	2430.9	2398.0
5°	3032.7	2934.0	2731.8	2539.0	2393.3	2238.1	2106.5	2003.0	1965.4	1937.2	1899.6
7.5°	3070.3	2915.2	2614.3	2332.1	2101.7	1885.5	1730.3	1589.2	1546.9	1509.3	1485.8
10°	3084.4	2882.3	2477.9	2101.7	1800.8	1570.4	1405.9	1302.4	1264.8	1246.0	1231.9
12.5°	3126.8	2863.5	2351.0	1885.5	1537.5	1325.9	1208.4	1147.3	1133.2	1119.1	1104.9
15°	3183.2	2863.5	2224.0	1673.9	1330.6	1161.4	1090.8	1048.5	1039.1	1034.4	1025.0
17.5°	3244.3	2863.5	2101.7	1495.2	1180.2	1053.2	1001.5	978.0	973.3	968.6	963.9
20°	3328.9	2868.2	1970.1	1340.0	1072.0	973.3	931.0	902.8	898.1	893.4	893.4
22.5°	3413.6	2877.6	1843.1	1222.5	1001.5	912.2	860.4	832.2	822.8	822.8	822.8
25°	3521.7	2905.8	1725.6	1123.8	940.4	855.7	789.9	766.4	761.7	761.7	757.0
27.5°	3648.7	2938.7	1622.2	1048.5	879.3	789.9	724.1	700.6	691.2	691.2	686.5
30°	3785.0	2971.6	1537.5	992.1	818.1	724.1	663.0	634.8	625.4	630.1	625.4
32.5°	3935.5	3018.6	1471.7	954.5	761.7	667.7	611.2	578.3	573.6	573.6	568.9
35°	4189.4	3150.3	1462.3	935.7	714.7	625.4	568.9	536.0	531.3	531.3	526.6
37.5°	4462.1	3300.7	1504.6	926.3	677.1	587.7	536.0	503.1	498.4	498.4	498.4
40°	4692.5	3413.6	1551.6	926.3	653.6	554.8	507.8	479.6	479.6	479.6	479.6
42.5°	4847.7	3423.0	1542.2	926.3	634.8	531.3	489.0	460.8	460.8	465.5	460.8
45°	5078.1	3470.0	1504.6	912.2	620.7	512.5	470.2	446.7	442.0	446.7	446.7
47.5°	5350.8	3554.6	1467.0	855.7	615.9	493.7	456.1	427.9	423.2	427.9	423.2
50°	5609.4	3629.9	1448.2	780.5	606.5	474.9	437.3	409.1	404.4	409.1	404.4
52.5°	5825.7	3662.8	1415.3	728.8	583.0	456.1	418.5	390.3	380.9	385.6	385.6
55°	5999.6	3653.4	1368.3	686.5	540.7	437.3	395.0	371.5	357.3	357.3	352.6
57.5°	6159.5	3658.1	1325.9	644.2	493.7	409.1	376.2	347.9	329.1	324.4	319.7
60°	6220.6	3634.6	1250.7	587.7	446.7	385.6	352.6	319.7	300.9	296.2	291.5
62.5°	6136.0	3549.9	1152.0	489.0	404.4	357.3	329.1	296.2	277.4	272.7	268.0
65°	5896.2	3390.1	1001.5	385.6	366.7	324.4	300.9	277.4	253.9	244.5	239.8
67.5°	5487.1	3159.7	813.4	310.3	324.4	296.2	282.1	253.9	225.7	216.3	211.6
70°	4904.1	2854.1	611.2	263.3	286.8	263.3	253.9	225.7	202.2	192.8	188.1
72.5°	4086.0	2360.4	427.9	225.7	249.2	230.4	221.0	202.2	178.7	164.6	164.6
75°	3089.1	1692.7	282.1	192.8	206.9	197.5	183.4	169.3	155.2	145.8	141.1
77.5°	1330.6	658.3	174.0	145.8	169.3	164.6	145.8	136.4	131.7	122.2	122.2
80°	573.6	268.0	108.1	108.1	122.2	117.5	112.8	103.4	103.4	98.7	94.0
82.5°	211.6	108.1	65.8	79.9	89.3	79.9	79.9	79.9	79.9	75.2	75.2
85°	51.7	32.9	32.9	47.0	51.7	47.0	51.7	47.0	47.0	47.0	42.3
87.5°	14.1	14.1	18.8	18.8	18.8	18.8	18.8	14.1	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)