

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: P841620

Luminaire Tested: **ARCH4-200-740-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32063 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 203.7
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



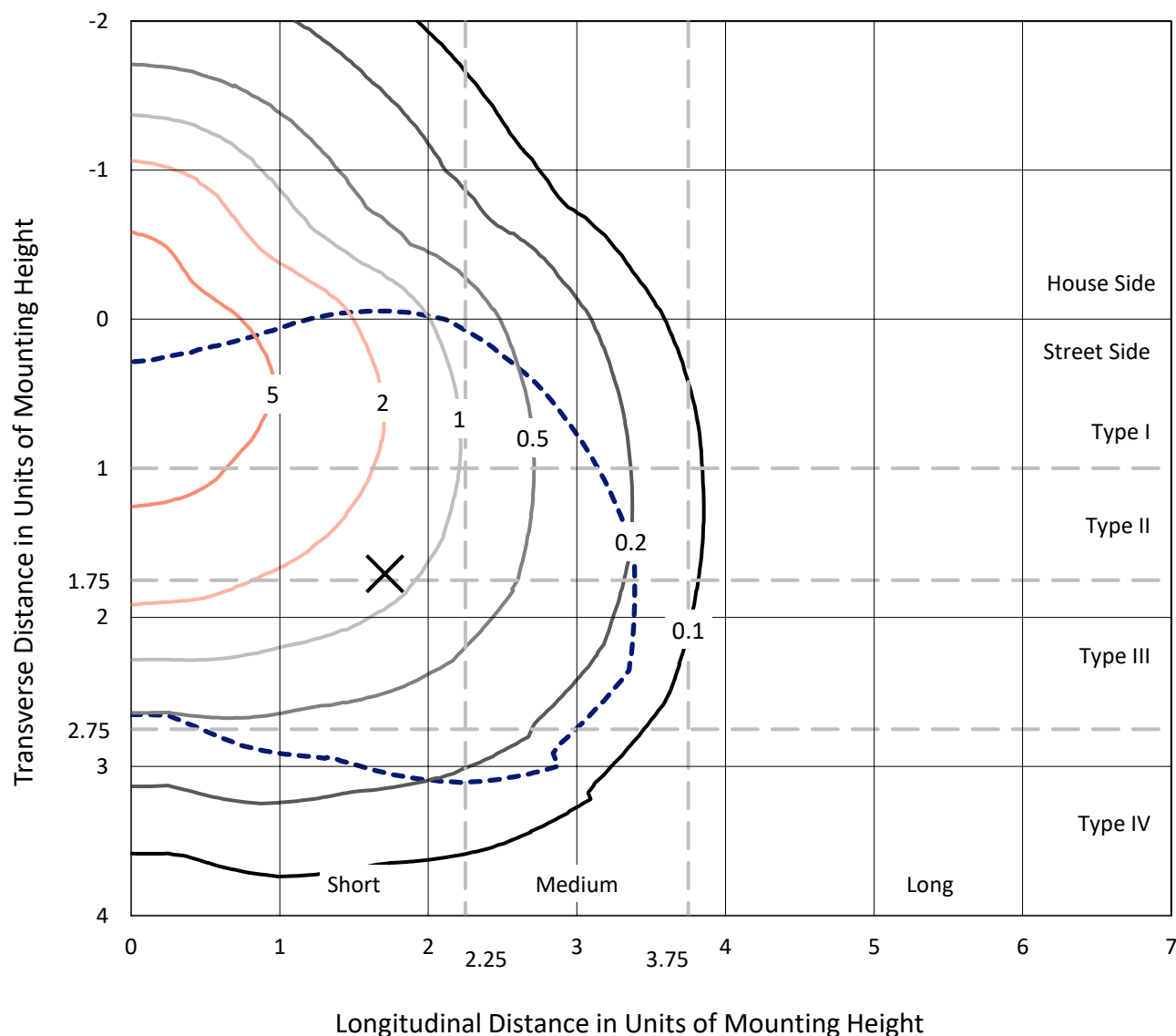
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

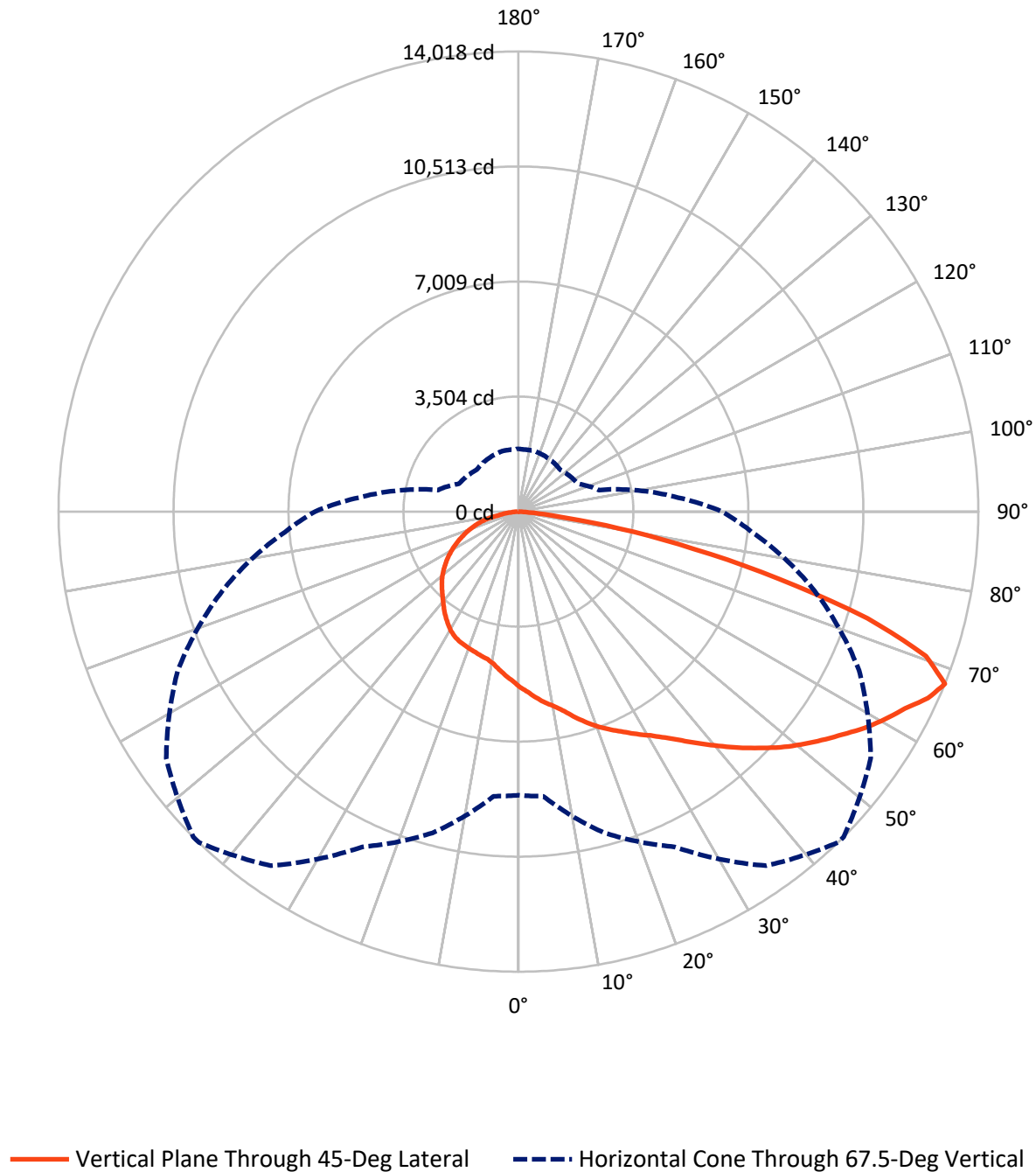


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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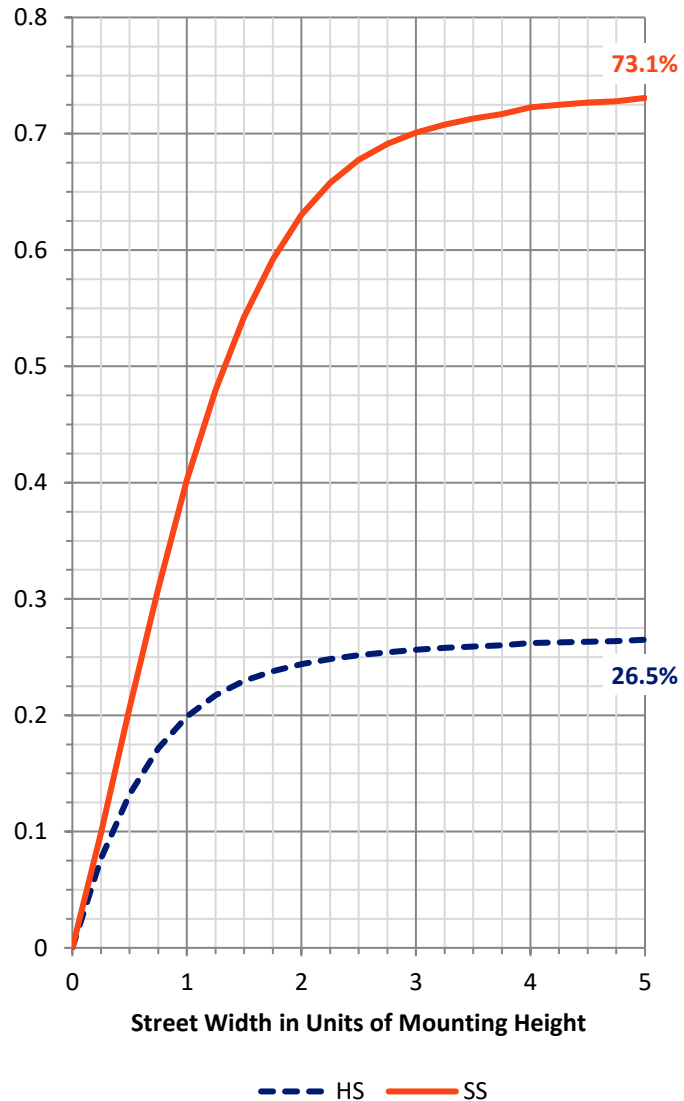
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8565.7	0.0	8565.7
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	23497.3	0.0	23497.3
	% Fixture	73.3	0.0	73.3
Total	Lumens	32063.0	0.0	32063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.0	1.6
10°-20°	1581.6	4.9
20°-30°	2730.1	8.5
30°-40°	4025.9	12.6
40°-50°	5454.3	17.0
50°-60°	6666.4	20.8
60°-70°	6875.5	21.4
70°-80°	3765.9	11.7
80°-90°	451.4	1.4
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°	32063.0	100.0
0°-180°	32063.0	100.0

Coefficient of Utilization



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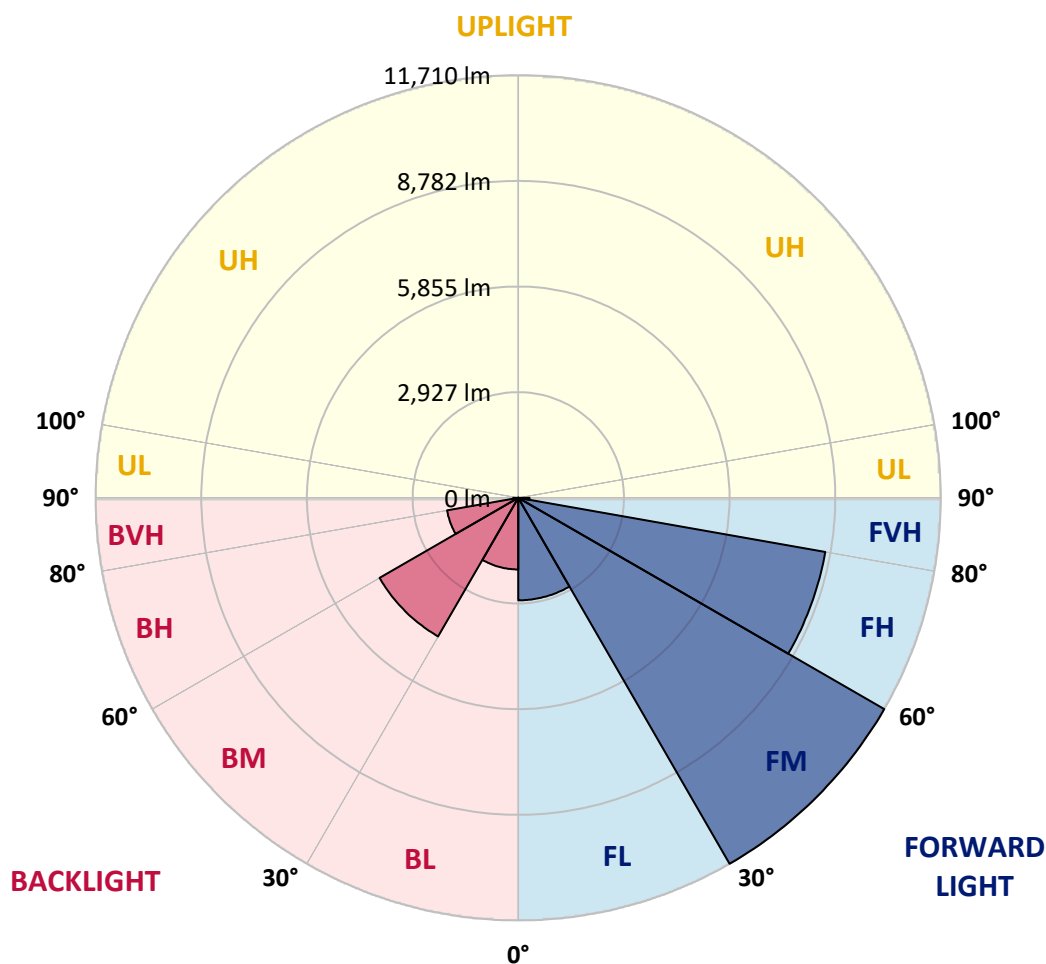
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2838.4	8.9			
FM	(30°-60°)	11709.7	36.5			
FH	(60°-80°)	8638.2	26.9			G4/12000
FVH	(80°-90°)	310.9	1.0			G3/500
BL	(0°-30°)	1985.2	6.2	B3/2500		
BM	(30°-60°)	4436.9	13.8	B3/5000		
BH	(60°-80°)	2003.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	140.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5
2.5°	5581.7	5576.8	5586.6	5552.4	5508.5	5503.6	5503.6	5474.4	5440.2	5371.9	5318.2
5°	5845.2	5835.4	5840.3	5791.5	5732.9	5703.7	5698.8	5635.4	5557.3	5450.0	5352.4
7.5°	6089.1	6079.4	6074.5	6020.8	5933.0	5884.2	5879.3	5786.6	5693.9	5528.0	5386.5
10°	6318.4	6308.7	6298.9	6225.7	6118.4	6045.2	6035.5	5918.4	5801.3	5596.3	5415.8
12.5°	6611.2	6591.7	6581.9	6494.1	6338.0	6259.9	6245.3	6089.1	5942.8	5693.9	5474.4
15°	6918.6	6903.9	6889.3	6806.4	6630.7	6528.2	6503.8	6308.7	6108.6	5820.8	5562.2
17.5°	7147.9	7133.3	7133.3	7060.1	6899.1	6782.0	6762.4	6528.2	6279.4	5937.9	5630.5
20°	7289.4	7274.7	7289.4	7245.5	7123.5	7025.9	7006.4	6747.8	6450.2	6045.2	5689.0
22.5°	7391.8	7377.2	7401.6	7382.1	7294.3	7235.7	7221.1	6967.4	6625.8	6157.4	5747.6
25°	7572.4	7572.4	7572.4	7538.2	7455.3	7435.8	7435.8	7216.2	6850.3	6303.8	5835.4
27.5°	7933.4	7913.9	7889.5	7791.9	7650.4	7645.6	7674.8	7469.9	7108.9	6494.1	5942.8
30°	8465.2	8455.5	8362.8	8157.9	7918.8	7894.4	7913.9	7743.1	7387.0	6694.1	6064.7
32.5°	9153.2	9119.0	8928.8	8621.4	8279.8	8167.6	8206.7	8026.1	7679.7	6899.1	6181.8
35°	9641.1	9650.9	9514.3	9236.1	8831.2	8533.6	8562.8	8343.3	7996.9	7128.4	6328.2
37.5°	10202.2	10236.4	10031.4	9821.6	9445.9	8938.5	8967.8	8670.2	8314.0	7416.2	6484.3
40°	10978.0	10909.7	10563.3	10314.4	9899.7	9363.0	9387.4	9036.1	8679.9	7689.5	6664.9
42.5°	11626.9	11504.9	11085.3	10768.2	10270.5	9811.9	9836.3	9431.3	9050.7	7992.0	6864.9
45°	12558.8	12222.2	11617.2	11461.0	10651.1	10251.0	10275.4	9850.9	9441.1	8314.0	7079.6
47.5°	13100.4	12563.7	12178.2	12095.3	11070.7	10704.8	10734.0	10294.9	9860.7	8679.9	7304.0
50°	13066.2	12719.8	12607.6	12402.7	11441.5	11129.2	11158.5	10753.5	10285.2	9041.0	7518.7
52.5°	12841.8	12905.2	12846.7	12505.1	11812.3	11539.1	11573.2	11207.3	10719.4	9377.6	7718.7
55°	13188.2	13232.1	13119.9	12671.0	12222.2	11948.9	11988.0	11685.5	11148.8	9675.3	7889.5
57.5°	13602.9	13446.8	13334.6	12963.8	12646.6	12392.9	12436.8	12173.4	11519.6	9914.3	8021.3
60°	13583.4	13256.5	13368.8	12983.3	12934.5	12802.8	12841.8	12573.5	11802.6	10090.0	8074.9
62.5°	12583.2	12407.6	12973.5	12841.8	13168.7	13168.7	13217.5	12817.4	11973.3	10163.2	8045.6
65°	10846.3	10856.0	11851.3	12397.8	13446.8	13671.3	13710.3	12968.7	11875.7	9948.5	7772.4
67.5°	8640.9	8704.3	10133.9	11270.7	13168.7	14012.8	14017.7	13105.3	11456.1	9343.5	7138.1
70°	6323.3	6372.1	8060.3	9441.1	11856.2	13256.5	13178.5	12719.8	10543.7	8289.6	6147.7
72.5°	4274.1	4318.0	6055.0	7250.4	9728.9	11290.3	11119.5	11241.5	8987.3	6811.2	4942.5
75°	2873.8	2927.5	4308.3	5186.5	7157.6	8572.6	8192.0	8514.0	6952.7	5157.2	3605.7
77.5°	1810.1	1844.3	2737.2	3400.7	4888.9	5835.4	5454.8	5459.7	4005.7	2776.2	1937.0
80°	1151.5	1161.2	1658.9	1961.4	2829.9	3508.1	3103.1	2522.5	1805.3	1473.5	1156.3
82.5°	668.4	653.8	990.5	1107.6	1346.6	1332.0	1102.7	1044.1	790.4	736.7	590.4
85°	268.4	248.8	434.2	405.0	409.8	434.2	322.0	322.0	258.6	200.0	146.4
87.5°	53.7	53.7	58.5	53.7	53.7	58.5	43.9	43.9	39.0	39.0	39.0
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°	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5	5347.5
2.5°	5308.5	5298.7	5274.3	5210.9	5176.7	5157.2	5127.9	5118.2	5113.3	5118.2	5132.8
5°	5323.1	5289.0	5220.6	5118.2	5049.9	5006.0	4957.2	4937.7	4923.0	4923.0	4937.7
7.5°	5332.9	5279.2	5162.1	5010.8	4913.3	4845.0	4786.4	4762.0	4757.1	4771.8	4776.6
10°	5337.7	5259.7	5093.8	4903.5	4776.6	4688.8	4630.3	4615.6	4630.3	4659.5	4664.4
12.5°	5371.9	5264.6	5054.8	4830.3	4679.1	4591.2	4547.3	4547.3	4586.4	4640.0	4644.9
15°	5430.4	5298.7	5035.2	4771.8	4615.6	4537.6	4522.9	4547.3	4605.9	4688.8	4698.6
17.5°	5474.4	5318.2	4991.3	4693.7	4532.7	4483.9	4508.3	4566.8	4649.8	4762.0	4771.8
20°	5503.6	5318.2	4927.9	4601.0	4449.7	4440.0	4508.3	4601.0	4688.8	4820.6	4835.2
22.5°	5532.9	5308.5	4854.7	4488.8	4357.0	4386.3	4513.2	4630.3	4718.1	4859.6	4884.0
25°	5586.6	5323.1	4781.5	4376.6	4259.5	4342.4	4508.3	4649.8	4742.5	4888.9	4927.9
27.5°	5659.8	5357.3	4727.9	4274.1	4161.9	4274.1	4474.1	4644.9	4742.5	4884.0	4927.9
30°	5737.8	5396.3	4664.4	4161.9	4049.7	4176.5	4401.0	4591.2	4703.5	4835.2	4888.9
32.5°	5820.8	5440.2	4610.8	4039.9	3913.0	4044.8	4293.6	4508.3	4630.3	4752.2	4810.8
35°	5933.0	5518.3	4581.5	3942.3	3791.1	3908.2	4157.0	4401.0	4532.7	4644.9	4713.2
37.5°	6069.6	5615.9	4566.8	3844.7	3659.3	3756.9	4010.6	4269.2	4410.7	4503.4	4566.8
40°	6225.7	5737.8	4562.0	3752.0	3527.6	3600.8	3859.4	4118.0	4254.6	4327.8	4381.4
42.5°	6401.4	5874.4	4552.2	3659.3	3395.9	3454.4	3713.0	3966.7	4083.8	4147.2	4196.0
45°	6586.8	6011.1	4532.7	3547.1	3254.4	3322.7	3561.7	3786.2	3908.2	3961.8	4015.5
47.5°	6772.2	6147.7	4493.7	3420.3	3127.5	3190.9	3400.7	3595.9	3693.5	3742.3	3795.9
50°	6952.7	6269.7	4401.0	3273.9	2995.8	3054.3	3215.3	3347.1	3420.3	3459.3	3513.0
52.5°	7113.7	6352.6	4269.2	3103.1	2864.0	2893.3	3000.7	3112.9	3171.4	3176.3	3225.1
55°	7250.4	6396.5	4078.9	2927.5	2722.5	2727.4	2786.0	2873.8	2898.2	2878.7	2912.8
57.5°	7328.4	6372.1	3869.1	2746.9	2576.2	2556.7	2600.6	2644.5	2649.4	2600.6	2634.7
60°	7347.9	6259.9	3595.9	2566.4	2429.8	2376.1	2390.8	2381.0	2371.2	2351.7	2381.0
62.5°	7250.4	6020.8	3293.4	2390.8	2273.7	2190.7	2185.8	2181.0	2195.6	2200.5	2205.4
65°	6894.2	5571.9	2932.3	2210.2	2107.8	1995.6	1990.7	2049.2	2068.7	2039.5	2049.2
67.5°	6206.2	4884.0	2537.1	2000.4	1898.0	1800.4	1839.4	1873.6	1907.7	1898.0	1907.7
70°	5230.4	4010.6	2176.1	1766.2	1668.7	1615.0	1658.9	1688.2	1693.0	1683.3	1693.0
72.5°	4113.1	3132.4	1839.4	1527.2	1439.3	1414.9	1468.6	1493.0	1536.9	1556.4	1561.3
75°	2971.4	2312.7	1507.6	1268.6	1195.4	1195.4	1244.2	1288.1	1327.1	1302.7	1288.1
77.5°	1658.9	1380.8	1083.2	873.4	888.0	956.3	975.8	1024.6	1063.6	1058.8	1049.0
80°	1005.1	863.6	731.9	566.0	561.1	614.8	741.6	824.6	844.1	800.2	795.3
82.5°	522.1	453.8	390.3	317.1	351.3	409.8	429.4	517.2	570.9	551.3	575.7
85°	131.7	126.9	141.5	146.4	180.5	200.0	219.6	258.6	170.8	82.9	82.9
87.5°	39.0	39.0	48.8	48.8	63.4	78.1	73.2	73.2	39.0	4.9	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)