

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: P842020

Luminaire Tested: **ARCH4-260-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842020
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: ARCH4-260-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1010mA 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: 25511 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - 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



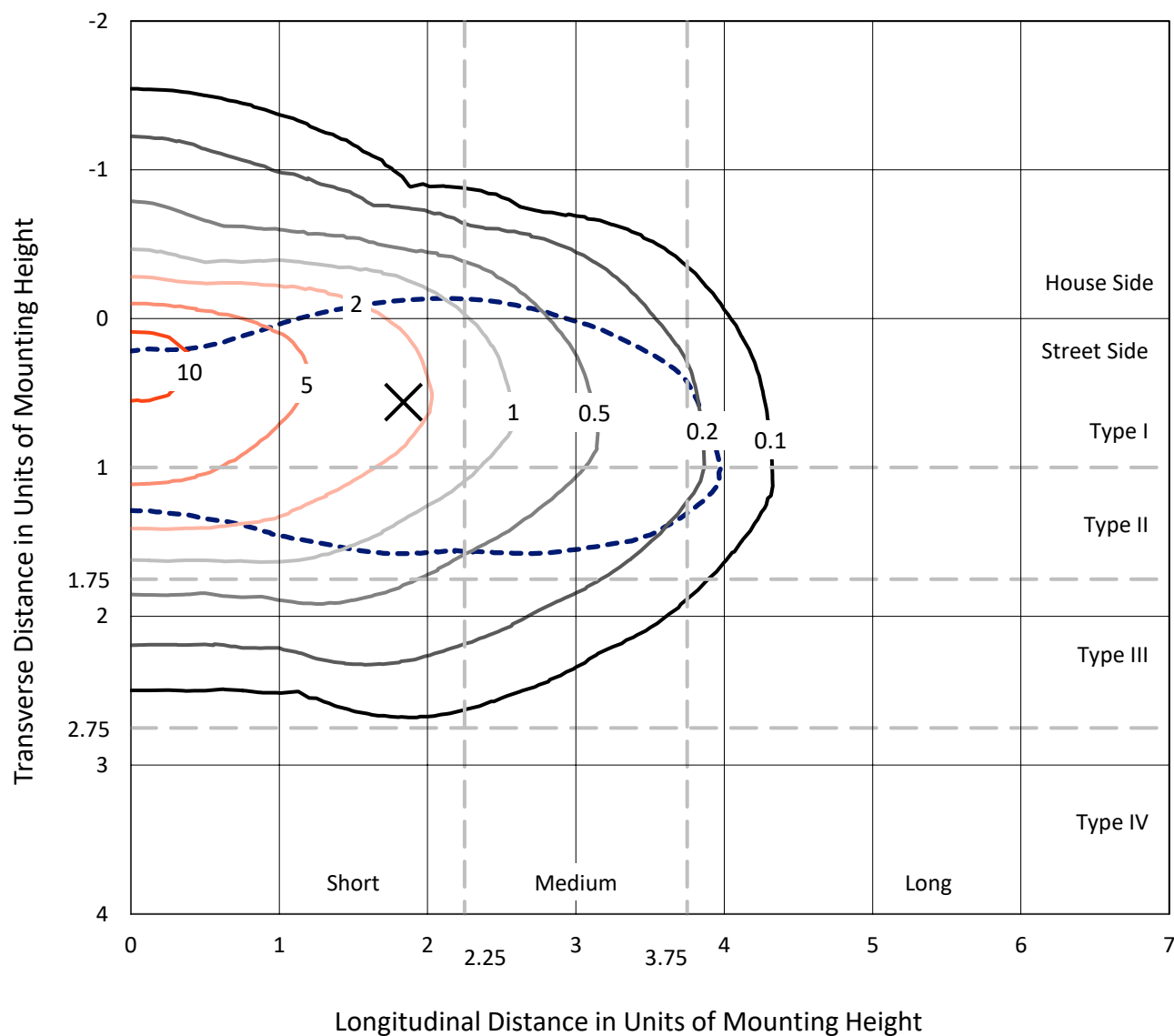
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

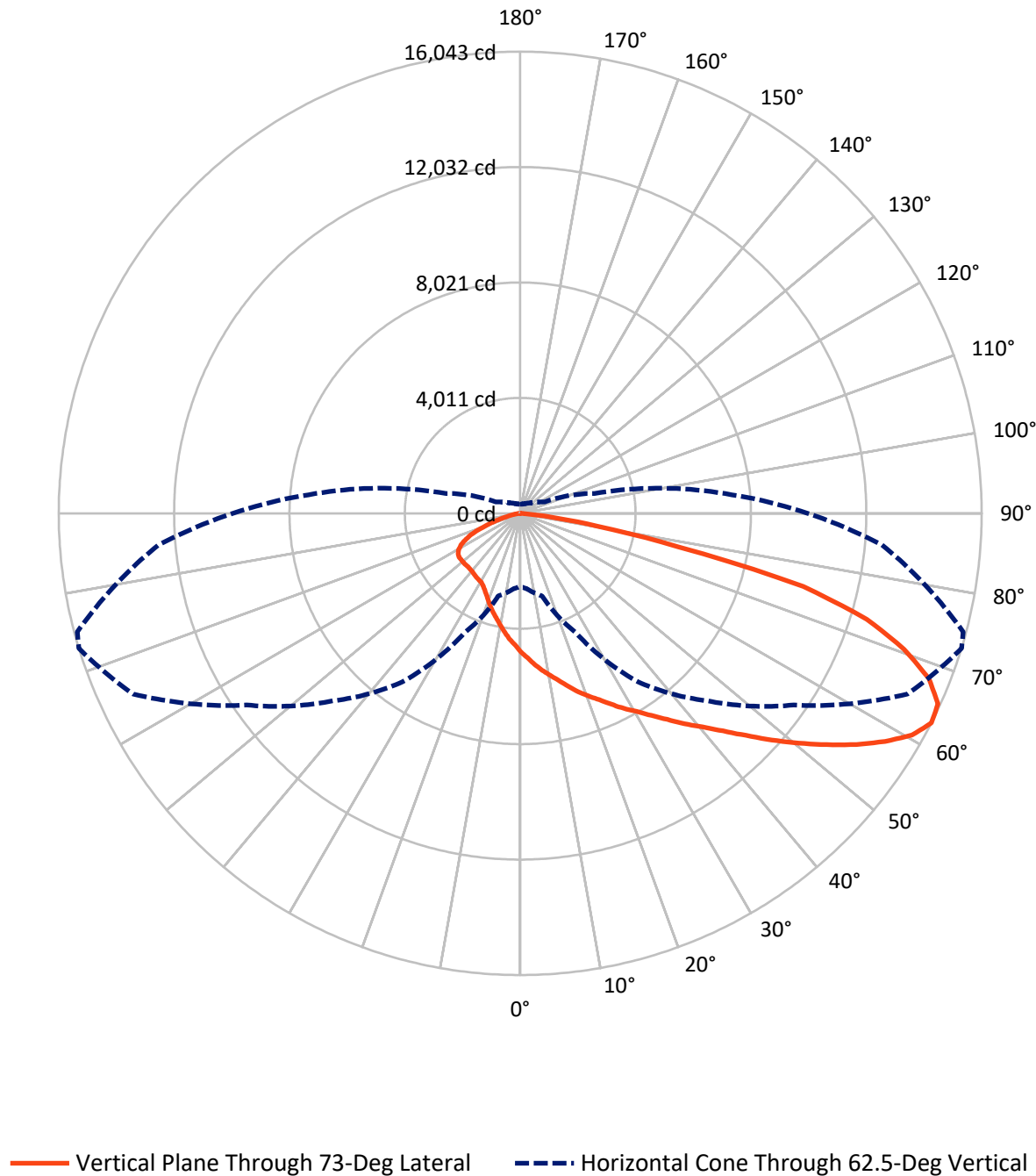


Based on 25 foot mounting height. Maximum calculated value = 12.2 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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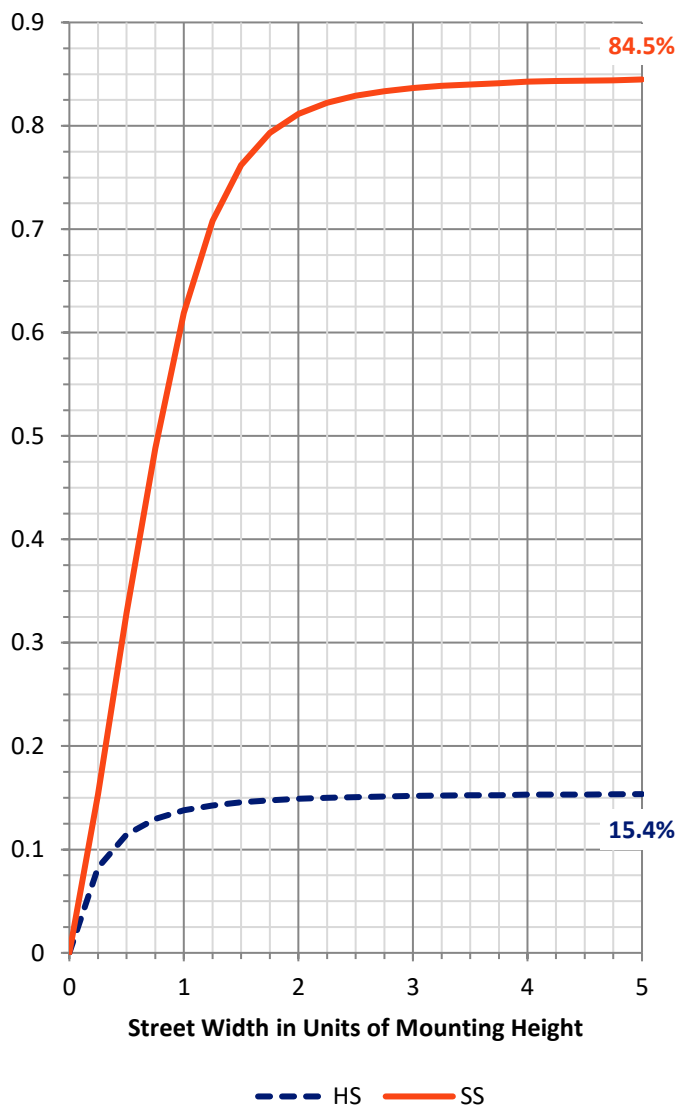
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3954.6	0.0	3954.6
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	21556.4	0.0	21556.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	25511.0	0.0	25511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.7	1.8
10°-20°	1408.2	5.5
20°-30°	2343.9	9.2
30°-40°	3536.6	13.9
40°-50°	4943.3	19.4
50°-60°	5460.2	21.4
60°-70°	4756.5	18.6
70°-80°	2402.7	9.4
80°-90°	192.9	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°	25511.0	100.0
0°-180°	25511.0	100.0

Coefficient of Utilization



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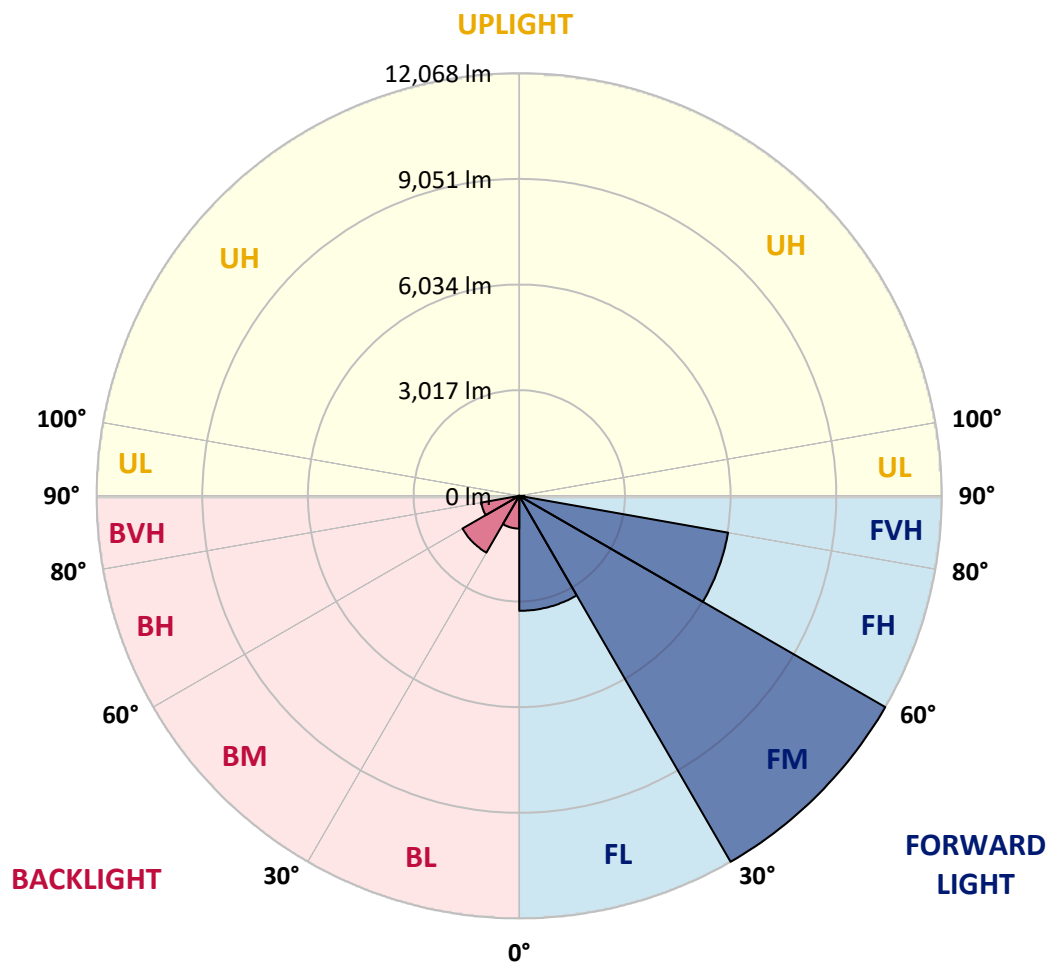
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3284.0	12.9			
FM	(30°-60°)	12067.6	47.3			
FH	(60°-80°)	6055.5	23.7			G3/7500
FVH	(80°-90°)	149.2	0.6			G2/225
BL	(0°-30°)	934.7	3.7	B2/1000		
BM	(30°-60°)	1872.5	7.3	B2/2500		
BH	(60°-80°)	1103.8	4.3	B3/2500		G3/2500
BVH	(80°-90°)	43.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6
2.5°	5497.6	5558.8	5525.4	5547.6	5436.5	5364.2	5280.8	5119.6	5030.7	5019.6	4913.9
5°	6303.6	6370.3	6314.8	6298.1	6103.5	5936.8	5747.8	5464.3	5275.3	5241.9	5008.4
7.5°	7109.7	7170.8	7104.1	7054.1	6792.8	6498.2	6220.3	5803.3	5508.7	5453.1	5086.3
10°	7676.6	7732.2	7682.2	7632.2	7359.8	7059.6	6665.0	6120.2	5720.0	5631.0	5136.3
12.5°	8104.7	8138.0	8115.8	8071.3	7815.6	7493.2	7115.2	6476.0	5959.0	5847.8	5214.1
15°	8454.9	8510.5	8482.7	8449.3	8204.7	7882.3	7521.0	6848.4	6236.9	6098.0	5330.9
17.5°	8688.3	8727.3	8732.8	8732.8	8516.0	8199.2	7849.0	7187.5	6514.9	6337.0	5442.0
20°	8794.0	8838.4	8866.2	8910.7	8732.8	8460.4	8104.7	7476.5	6776.1	6576.0	5547.6
22.5°	8844.0	8882.9	8955.2	9055.2	8910.7	8682.8	8354.8	7743.4	7037.4	6826.2	5669.9
25°	8882.9	8932.9	9038.5	9227.5	9127.5	8932.9	8649.4	8049.1	7348.7	7131.9	5847.8
27.5°	8988.5	9049.7	9149.7	9377.6	9255.3	9160.8	8960.7	8377.1	7676.6	7454.3	6064.6
30°	9355.4	9405.4	9399.9	9544.4	9394.3	9366.5	9227.5	8693.9	7993.5	7771.1	6320.3
32.5°	10022.4	10072.5	9950.2	9894.6	9566.6	9572.2	9516.6	9033.0	8371.5	8143.6	6614.9
35°	10739.5	10795.1	10633.9	10539.4	9989.1	9827.9	9855.7	9455.4	8794.0	8566.0	6981.8
37.5°	11378.8	11445.5	11306.5	11167.5	10611.7	10239.2	10233.7	9927.9	9277.6	9044.1	7387.6
40°	11729.0	11806.8	11890.2	11812.4	11228.7	10817.3	10639.5	10411.6	9755.6	9516.6	7826.7
42.5°	11895.7	12112.5	12262.6	12212.6	11734.5	11317.6	11106.4	10917.4	10339.3	10105.8	8349.3
45°	11428.8	11434.4	11751.2	12023.6	11934.7	11656.7	11617.8	11484.4	11006.3	10784.0	8938.5
47.5°	10845.1	10800.7	11023.0	11506.6	11756.8	11829.0	12056.9	12112.5	11767.9	11545.5	9538.8
50°	9444.3	9472.1	10194.8	10889.6	11378.8	11845.7	12368.2	12757.4	12551.7	12340.4	10172.5
52.5°	7682.2	7748.9	8577.2	10105.8	10878.5	11679.0	12551.7	13402.2	13352.1	13152.0	10806.2
55°	6159.1	6264.7	7143.0	8799.5	10239.2	11306.5	12629.5	13991.4	14180.4	13997.0	11428.8
57.5°	4708.3	4819.4	5558.8	7259.7	9422.1	10700.6	12573.9	14508.4	14953.1	14836.3	12001.4
60°	3546.5	3657.7	4130.2	5886.7	8399.3	10022.4	12296.0	14847.4	15647.9	15525.6	12418.3
62.5°	2540.4	2629.3	2979.5	4580.4	7154.1	9216.4	11612.2	14853.0	16042.6	15942.5	12618.4
65°	1828.8	1828.8	2112.3	3268.6	5986.8	8249.2	10578.3	14169.3	15959.2	15931.4	12479.4
67.5°	1317.4	1328.5	1556.5	2284.7	4775.0	7076.3	9238.7	12951.9	15314.4	15453.4	11979.1
70°	933.9	961.7	1067.3	1595.4	3607.6	5586.6	7804.5	11356.5	14152.6	14397.2	11011.9
72.5°	722.6	739.3	811.6	1111.8	2634.9	4152.4	6220.3	9577.7	12601.7	12879.6	9694.5
75°	555.9	572.6	628.1	817.1	1890.0	2912.8	4419.2	7432.1	10161.4	10656.1	7787.8
77.5°	405.8	428.0	466.9	594.8	1100.6	1851.1	2679.3	4180.2	5608.8	5842.3	4080.1
80°	189.0	216.8	272.4	383.6	594.8	872.7	950.5	1612.0	2696.0	2818.3	2212.4
82.5°	105.6	133.4	155.6	233.5	300.2	311.3	322.4	405.8	1017.3	1122.9	928.3
85°	50.0	66.7	72.3	100.1	100.1	88.9	105.6	77.8	166.8	200.1	194.6
87.5°	0.0	5.6	11.1	27.8	22.2	16.7	16.7	16.7	16.7	22.2	16.7
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°	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6	4830.6
2.5°	4863.9	4791.7	4624.9	4480.4	4385.9	4302.5	4191.3	4141.3	4052.3	4069.0	4019.0
5°	4891.7	4758.3	4463.7	4191.3	3991.2	3813.3	3618.8	3507.6	3385.3	3374.2	3335.3
7.5°	4908.4	4702.7	4280.2	3896.7	3591.0	3318.6	3057.3	2912.8	2762.7	2729.4	2696.0
10°	4891.7	4619.3	4091.2	3591.0	3185.2	2846.1	2551.5	2368.0	2212.4	2173.5	2140.1
12.5°	4908.4	4574.9	3913.4	3307.5	2823.8	2440.3	2106.8	1917.8	1773.2	1734.3	1712.1
15°	4947.3	4547.1	3763.3	3051.8	2501.4	2073.4	1745.5	1584.2	1467.5	1428.6	1417.5
17.5°	4980.6	4519.3	3602.1	2801.6	2179.0	1751.0	1467.5	1334.1	1234.0	1195.1	1184.0
20°	5025.1	4480.4	3440.9	2562.6	1895.5	1495.3	1245.2	1128.4	1050.6	1022.8	1017.3
22.5°	5064.0	4452.6	3290.8	2323.6	1634.3	1289.6	1078.4	983.9	928.3	900.5	900.5
25°	5164.1	4463.7	3162.9	2101.2	1439.7	1128.4	950.5	878.3	833.8	817.1	817.1
27.5°	5280.8	4508.2	3062.9	1912.2	1273.0	1006.1	861.6	800.5	778.2	756.0	761.6
30°	5447.6	4597.1	2996.2	1756.6	1150.7	911.6	789.3	744.9	722.6	717.1	717.1
32.5°	5658.8	4741.6	2990.6	1656.5	1061.7	839.4	739.3	700.4	689.3	683.7	683.7
35°	5909.0	4869.5	2957.3	1612.0	1006.1	789.3	700.4	672.6	667.1	667.1	667.1
37.5°	6209.1	5080.7	2935.0	1550.9	978.3	761.6	672.6	650.4	650.4	650.4	650.4
40°	6520.4	5253.0	2901.7	1495.3	967.2	744.9	655.9	628.1	628.1	628.1	628.1
42.5°	6892.9	5503.2	2890.6	1467.5	950.5	733.8	633.7	600.3	605.9	605.9	611.5
45°	7343.1	5786.7	2885.0	1439.7	945.0	722.6	611.5	572.6	578.1	572.6	572.6
47.5°	7798.9	6114.6	2901.7	1423.0	939.4	711.5	594.8	544.8	544.8	539.2	539.2
50°	8277.0	6414.8	2912.8	1406.4	928.3	689.3	567.0	522.5	511.4	500.3	505.8
52.5°	8727.3	6692.7	2918.3	1378.6	895.0	655.9	544.8	494.7	478.1	461.4	466.9
55°	9177.5	6959.6	2929.5	1345.2	850.5	622.6	517.0	466.9	444.7	422.5	422.5
57.5°	9583.3	7193.0	2901.7	1261.8	800.5	589.2	489.2	433.6	400.2	378.0	378.0
60°	9861.2	7359.8	2818.3	1139.5	733.8	550.3	461.4	400.2	361.3	344.6	344.6
62.5°	9994.6	7387.6	2668.2	939.4	650.4	511.4	428.0	366.9	333.5	322.4	322.4
65°	9866.8	7265.3	2434.7	706.0	561.4	466.9	394.7	339.1	305.7	277.9	277.9
67.5°	9422.1	6920.7	2112.3	533.6	478.1	422.5	361.3	311.3	272.4	250.1	250.1
70°	8527.1	6203.6	1634.3	428.0	405.8	366.9	328.0	277.9	244.6	216.8	216.8
72.5°	7354.2	5258.6	1150.7	344.6	344.6	311.3	277.9	244.6	211.2	189.0	189.0
75°	5642.1	3891.1	772.7	277.9	283.5	261.3	227.9	200.1	177.9	161.2	161.2
77.5°	3079.6	1923.3	472.5	205.7	211.2	200.1	177.9	161.2	150.1	133.4	133.4
80°	1495.3	844.9	272.4	144.5	150.1	144.5	133.4	116.7	116.7	105.6	105.6
82.5°	628.1	316.8	144.5	100.1	100.1	88.9	83.4	83.4	83.4	77.8	77.8
85°	155.6	61.1	61.1	55.6	55.6	55.6	50.0	50.0	50.0	38.9	44.5
87.5°	22.2	22.2	22.2	22.2	22.2	22.2	16.7	5.6	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)