

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: P836258

Luminaire Tested: **ARCH3-160-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-160-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1245mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

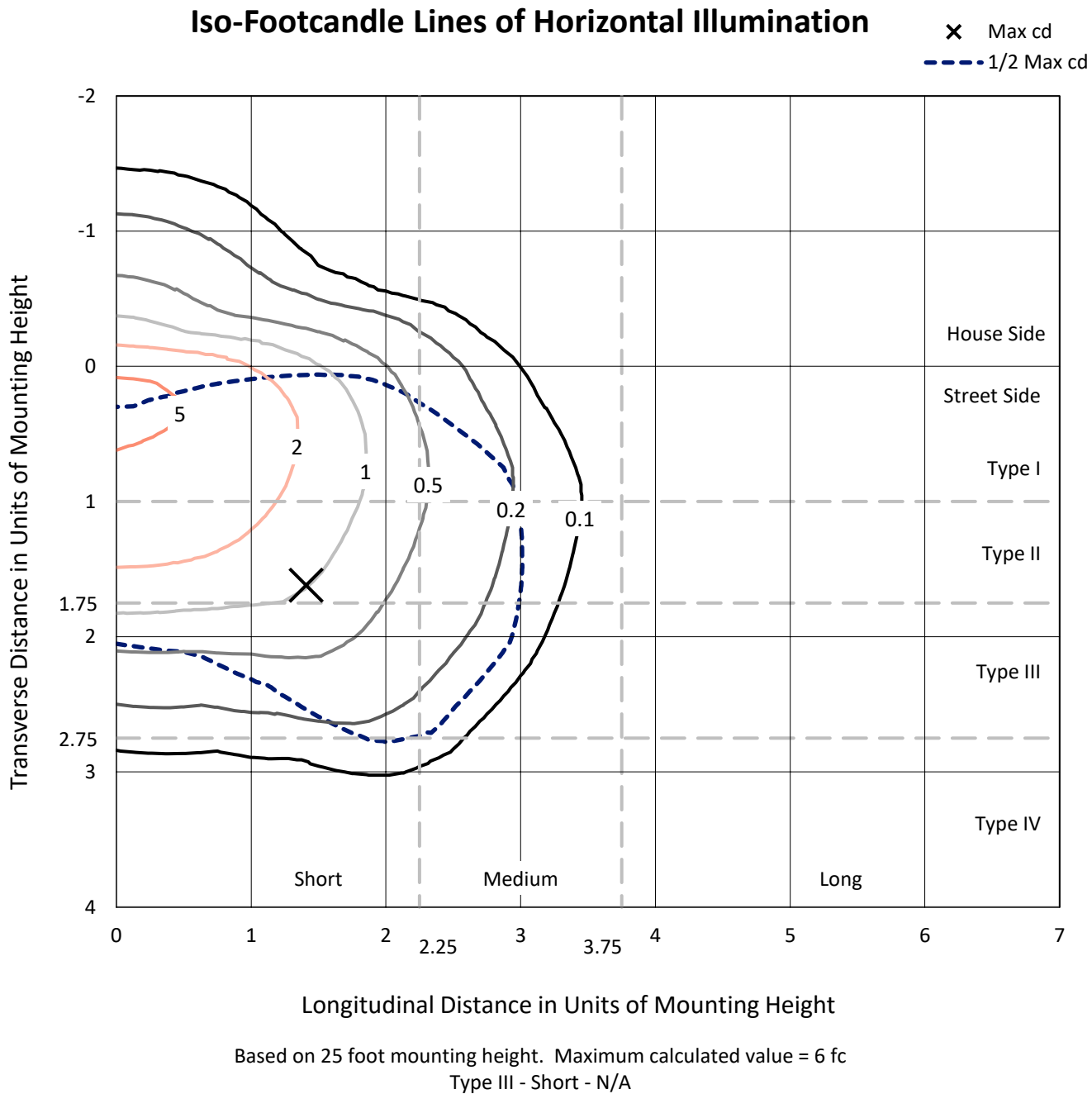
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15186 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 161
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

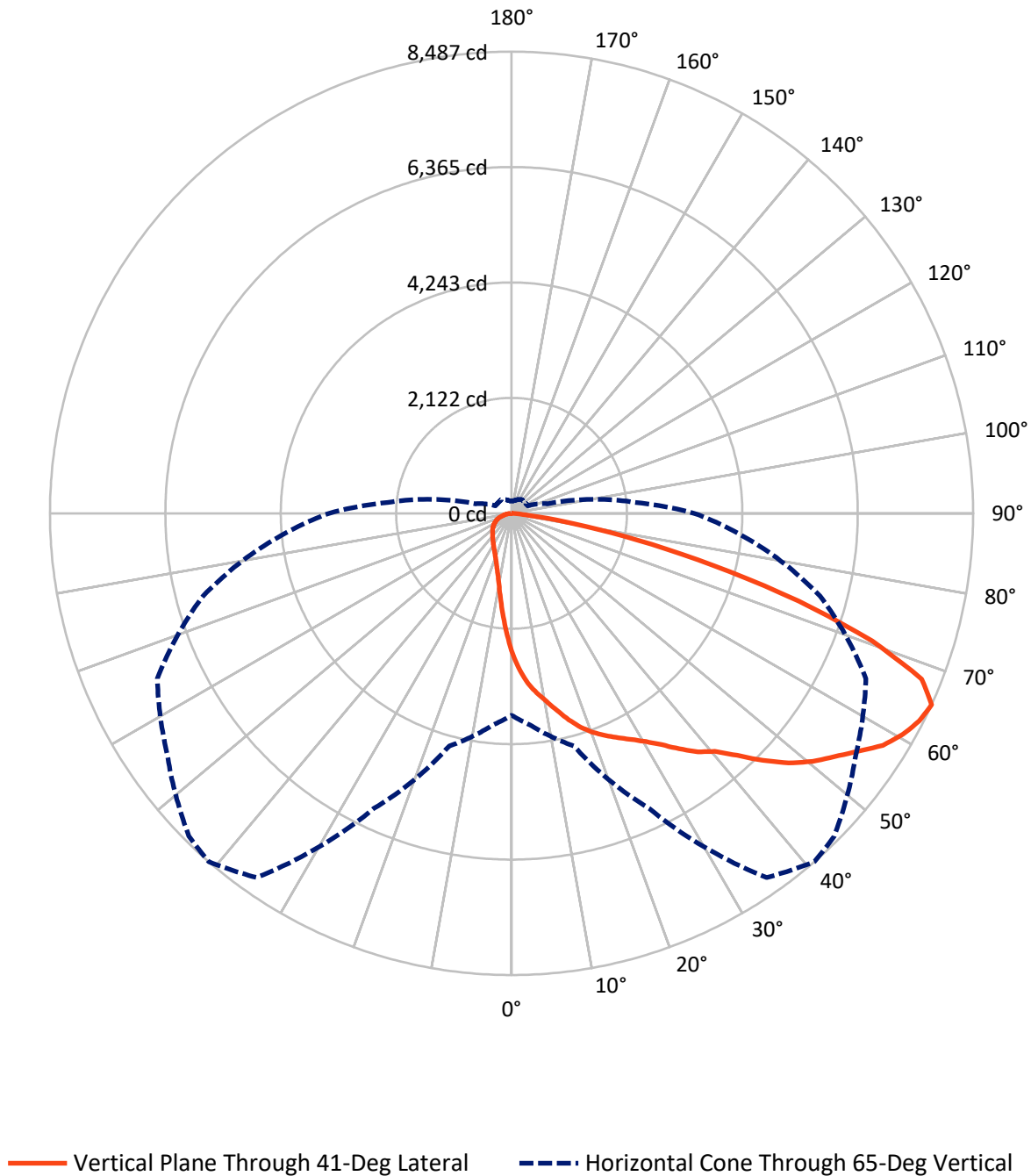


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Luminous Intensity Polar Plot



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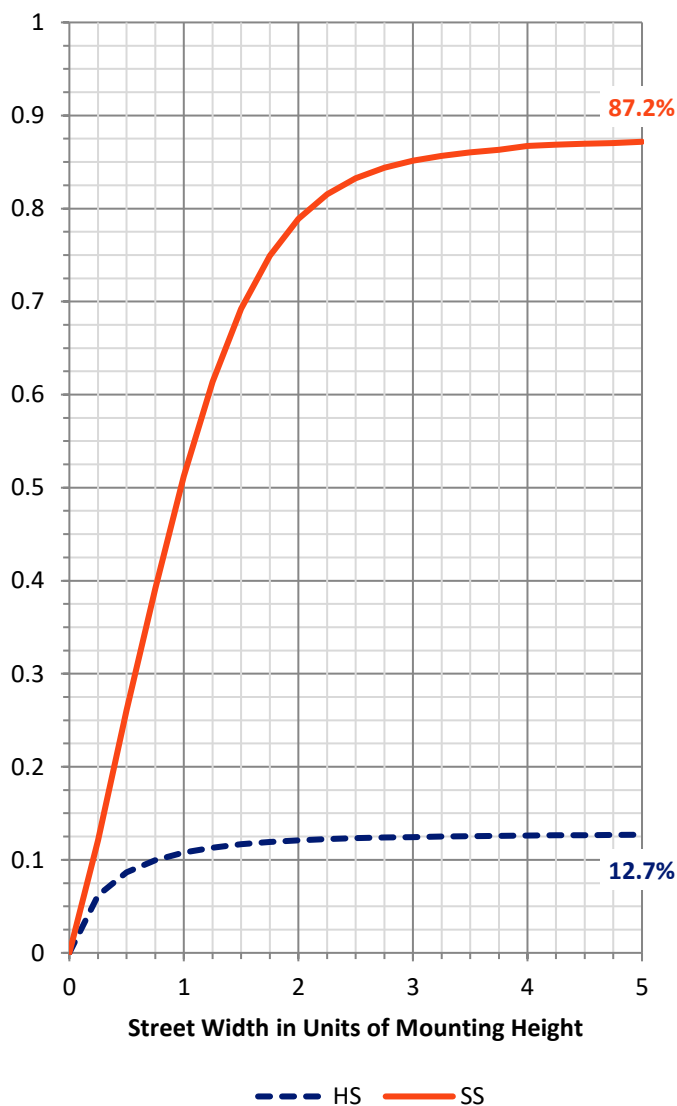
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1949.6	0.0	1949.6
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13236.4	0.0	13236.4
	% Fixture	87.2	0.0	87.2
Total	Lumens	15186.0	0.0	15186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.1	1.6
10°-20°	722.9	4.8
20°-30°	1243.7	8.2
30°-40°	1886.3	12.4
40°-50°	2763.5	18.2
50°-60°	3489.7	23.0
60°-70°	3272.2	21.5
70°-80°	1458.4	9.6
80°-90°	108.0	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°	15186.0	100.0
0°-180°	15186.0	100.0

Coefficient of Utilization



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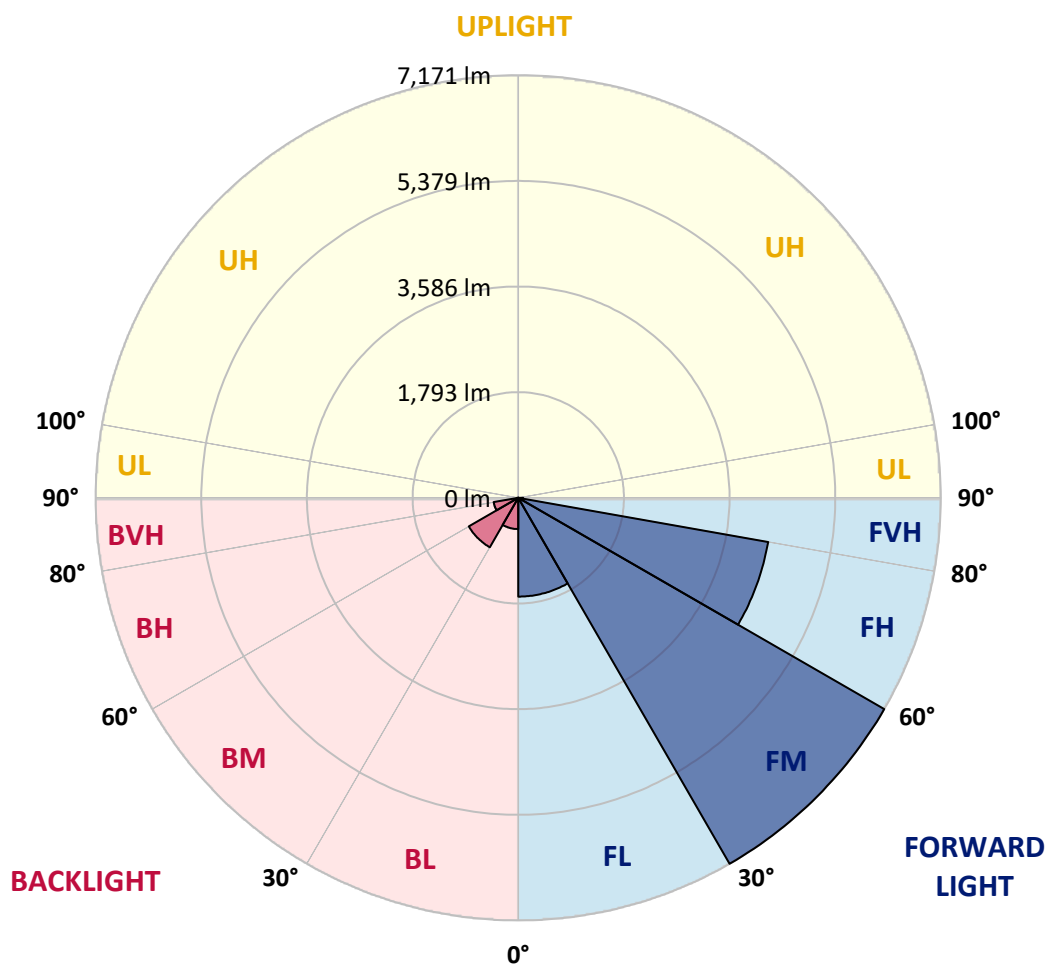
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1677.1	11.0			
FM	(30°-60°)	7171.4	47.2			
FH	(60°-80°)	4307.1	28.4			G2/5000
FVH	(80°-90°)	80.7	0.5			G1/100
BL	(0°-30°)	530.7	3.5	B2/1000		
BM	(30°-60°)	968.1	6.4	B1/1000		
BH	(60°-80°)	423.5	2.8	B1/500		G1/500
BVH	(80°-90°)	27.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6
2.5°	2984.7	2975.1	2968.7	2933.5	2933.5	2885.4	2888.6	2843.8	2789.4	2702.9	2610.0
5°	3266.5	3253.7	3237.7	3202.5	3189.7	3141.6	3135.2	3071.2	2978.3	2827.8	2661.3
7.5°	3513.1	3500.3	3477.9	3426.7	3391.4	3333.8	3317.8	3234.5	3132.0	2946.3	2712.5
10°	3737.3	3727.7	3698.9	3634.8	3586.8	3516.3	3487.5	3375.4	3247.3	3042.4	2754.1
12.5°	3964.7	3951.9	3913.4	3859.0	3801.4	3718.1	3682.9	3538.8	3375.4	3148.1	2815.0
15°	4176.1	4156.8	4128.0	4070.4	4019.1	3939.1	3900.6	3730.9	3532.4	3266.5	2895.1
17.5°	4313.8	4297.7	4272.1	4240.1	4198.5	4137.6	4099.2	3932.7	3689.3	3381.8	2978.3
20°	4397.0	4390.6	4381.0	4361.8	4342.6	4300.9	4272.1	4115.2	3859.0	3493.9	3058.4
22.5°	4461.1	4454.7	4451.5	4451.5	4454.7	4438.7	4419.4	4284.9	4022.3	3612.4	3132.0
25°	4560.4	4557.1	4550.7	4544.3	4566.8	4570.0	4563.6	4470.7	4227.3	3769.3	3224.9
27.5°	4698.1	4688.5	4675.6	4669.2	4691.7	4707.7	4720.5	4656.4	4445.1	3929.5	3330.6
30°	4909.4	4880.6	4848.6	4826.2	4842.2	4867.8	4896.6	4858.2	4669.2	4128.0	3439.5
32.5°	5159.2	5124.0	5050.3	5008.7	5050.3	5069.5	5092.0	5072.8	4903.0	4342.6	3548.4
35°	5463.5	5421.8	5345.0	5284.1	5357.8	5316.1	5306.5	5287.3	5124.0	4553.9	3670.1
37.5°	5969.4	5908.6	5786.9	5652.4	5652.4	5562.7	5527.5	5469.9	5322.5	4742.9	3788.6
40°	6555.5	6475.4	6318.5	6120.0	5937.4	5751.7	5729.3	5687.6	5556.3	4960.7	3923.1
42.5°	7199.2	7045.5	6827.7	6587.5	6292.9	6081.5	6030.3	5911.8	5783.7	5181.6	4057.6
45°	7913.4	7593.1	7276.1	7154.4	6667.6	6475.4	6379.4	6164.8	6020.7	5412.2	4198.5
47.5°	8028.7	7778.9	7567.5	7548.3	7016.7	6856.5	6747.7	6440.2	6276.9	5658.8	4345.8
50°	7964.6	7814.1	7836.5	7759.6	7272.9	7167.2	7083.9	6734.8	6529.9	5895.8	4480.3
52.5°	7695.6	7778.9	7907.0	7766.0	7516.3	7429.8	7388.2	7051.9	6766.9	6113.6	4602.0
55°	7375.3	7433.0	7708.4	7881.3	7798.1	7721.2	7682.8	7420.2	7000.7	6296.1	4714.1
57.5°	6907.8	6882.2	7186.4	7862.1	8092.7	8047.9	8006.2	7782.1	7218.4	6427.4	4784.5
60°	6206.4	6152.0	6536.3	7477.8	8188.8	8259.2	8240.0	8022.2	7385.0	6424.2	4755.7
62.5°	4992.7	5127.2	5658.8	6850.1	8230.4	8409.7	8374.5	8041.5	7439.4	6238.5	4573.2
65°	3711.7	3903.8	4425.8	5985.5	8172.8	8486.6	8390.5	7727.6	7186.4	5870.2	4172.8
67.5°	2674.1	2843.8	3224.9	4925.4	7618.7	8134.3	8022.2	7215.2	6603.5	5348.2	3618.8
70°	1828.6	1950.3	2209.7	3586.8	6504.3	7032.7	6962.2	6449.8	5684.4	4726.9	2939.9
72.5°	1290.6	1341.8	1508.4	2366.6	4941.4	5517.9	5434.6	5306.5	4566.8	3929.5	2286.6
75°	967.2	999.2	1088.8	1530.8	3333.8	3823.8	3746.9	3820.6	3410.7	2975.1	1665.3
77.5°	365.1	397.1	618.1	976.8	1972.7	2347.4	2270.6	2315.4	1895.9	1502.0	829.4
80°	99.3	105.7	205.0	464.4	896.7	1168.9	1063.2	912.7	704.5	691.7	438.7
82.5°	41.6	48.0	92.9	249.8	320.2	320.2	269.0	333.1	269.0	323.5	211.4
85°	16.0	19.2	22.4	64.0	41.6	44.8	48.0	64.0	54.4	67.3	48.0
87.5°	0.0	0.0	0.0	3.2	3.2	6.4	3.2	6.4	9.6	9.6	9.6
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°	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6	2587.6
2.5°	2571.6	2536.4	2485.1	2401.9	2315.4	2267.4	2206.5	2196.9	2132.9	2126.5	2100.8
5°	2587.6	2514.0	2382.7	2222.5	2065.6	1943.9	1854.2	1806.2	1713.3	1713.3	1687.7
7.5°	2600.4	2485.1	2273.8	2036.8	1822.2	1658.9	1537.2	1486.0	1402.7	1396.3	1377.1
10°	2603.6	2449.9	2155.3	1847.8	1585.2	1418.7	1300.2	1242.6	1168.9	1162.5	1149.7
12.5°	2629.2	2430.7	2049.6	1684.5	1415.5	1236.2	1120.9	1072.8	1015.2	1008.8	996.0
15°	2670.9	2430.7	1959.9	1546.8	1265.0	1098.5	999.2	954.3	912.7	906.3	899.9
17.5°	2712.5	2424.3	1870.3	1418.7	1140.1	989.6	903.1	867.9	835.9	832.6	826.2
20°	2750.9	2421.1	1780.6	1309.8	1044.0	899.9	832.6	800.6	775.0	775.0	771.8
22.5°	2789.4	2414.7	1694.1	1207.3	960.7	832.6	775.0	739.8	720.6	720.6	717.4
25°	2847.0	2414.7	1614.1	1120.9	893.5	781.4	723.8	698.1	682.1	678.9	678.9
27.5°	2914.3	2433.9	1543.6	1044.0	835.9	730.2	685.3	659.7	640.5	634.1	637.3
30°	2987.9	2449.9	1479.6	976.8	781.4	691.7	643.7	618.1	598.9	592.5	595.7
32.5°	3061.6	2469.1	1421.9	915.9	727.0	656.5	608.5	579.7	560.4	557.2	557.2
35°	3141.6	2488.3	1364.3	864.7	682.1	621.3	576.4	544.4	531.6	525.2	528.4
37.5°	3221.7	2520.4	1309.8	816.6	650.1	589.3	547.6	515.6	506.0	502.8	502.8
40°	3317.8	2568.4	1287.4	784.6	621.3	560.4	525.2	493.2	483.6	483.6	483.6
42.5°	3397.8	2606.8	1268.2	749.4	598.9	534.8	502.8	477.2	470.8	467.6	470.8
45°	3477.9	2642.1	1242.6	717.4	570.0	509.2	483.6	458.0	451.6	451.6	451.6
47.5°	3558.0	2661.3	1207.3	685.3	544.4	486.8	464.4	441.9	435.5	435.5	435.5
50°	3622.0	2677.3	1156.1	650.1	515.6	467.6	445.1	422.7	416.3	416.3	416.3
52.5°	3686.1	2680.5	1101.7	608.5	486.8	445.1	425.9	403.5	397.1	393.9	393.9
55°	3743.7	2677.3	1037.6	560.4	454.8	419.5	403.5	384.3	371.5	358.7	365.1
57.5°	3785.3	2674.1	964.0	512.4	422.7	393.9	387.5	361.9	336.3	304.2	310.6
60°	3769.3	2638.9	883.9	451.6	387.5	368.3	368.3	333.1	288.2	272.2	275.4
62.5°	3666.9	2539.6	800.6	387.5	352.3	342.7	339.5	301.0	265.8	249.8	253.0
65°	3359.4	2289.8	678.9	329.9	317.0	313.8	313.8	278.6	246.6	227.4	230.6
67.5°	2891.9	1921.5	554.0	278.6	281.8	288.2	288.2	256.2	224.2	205.0	208.2
70°	2318.6	1502.0	441.9	240.2	243.4	253.0	259.4	230.6	201.8	182.5	182.5
72.5°	1745.4	1140.1	355.5	201.8	217.8	217.8	227.4	205.0	176.1	156.9	160.1
75°	1265.0	816.6	281.8	169.7	188.9	185.7	185.7	172.9	150.5	137.7	137.7
77.5°	598.9	429.1	224.2	121.7	147.3	144.1	147.3	137.7	128.1	115.3	118.5
80°	294.6	211.4	144.1	86.5	102.5	105.7	115.3	108.9	105.7	96.1	96.1
82.5°	140.9	83.3	67.3	60.8	70.5	73.7	80.1	80.1	83.3	76.9	76.9
85°	38.4	22.4	28.8	38.4	44.8	48.0	54.4	57.6	57.6	54.4	57.6
87.5°	9.6	9.6	12.8	19.2	22.4	25.6	28.8	28.8	12.8	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)