

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: P836210

Luminaire Tested: **ARCH3-150-750-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-150-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

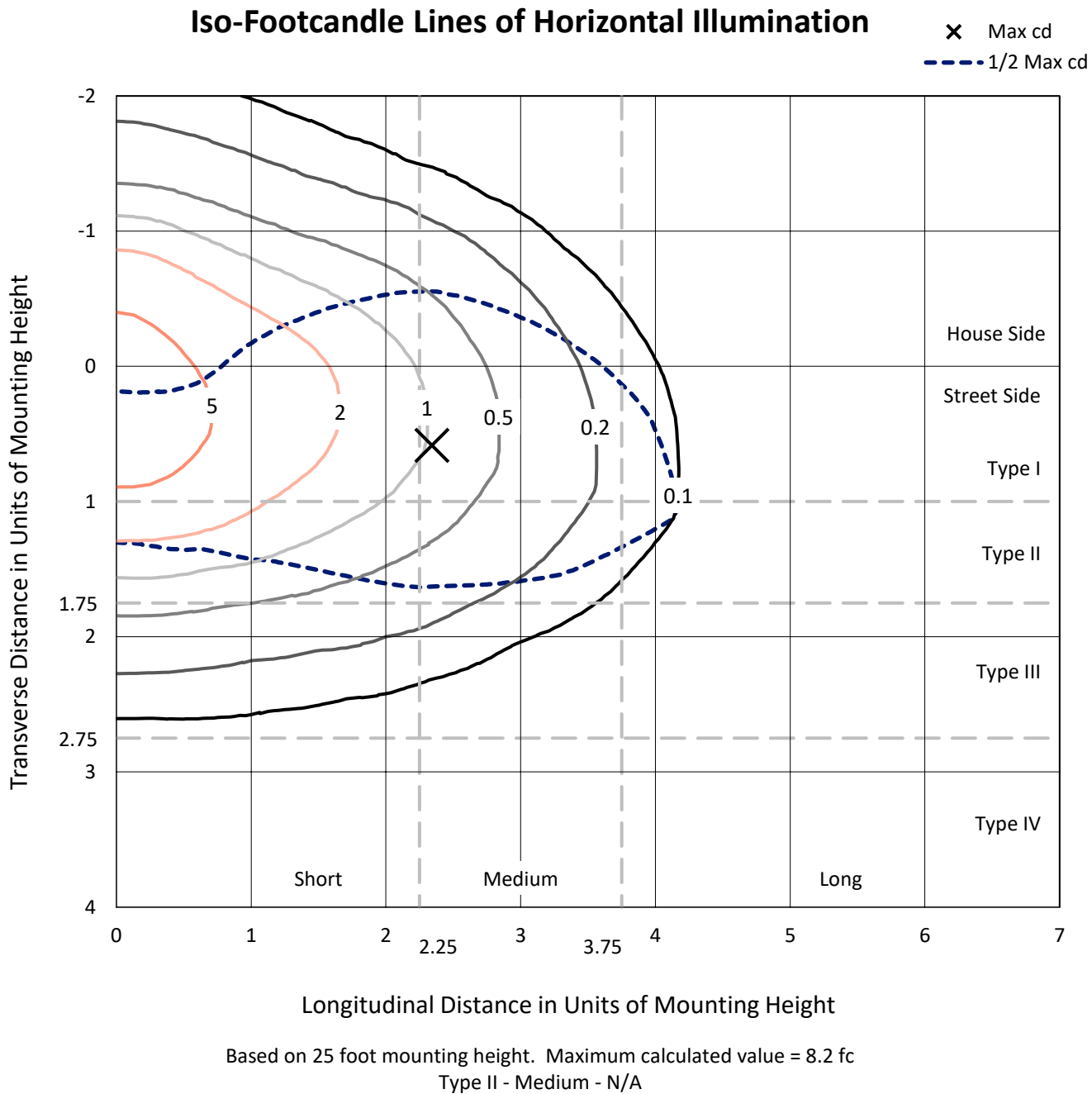
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22526 lumens
Efficiency: N/A
Efficacy: 149.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.7
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

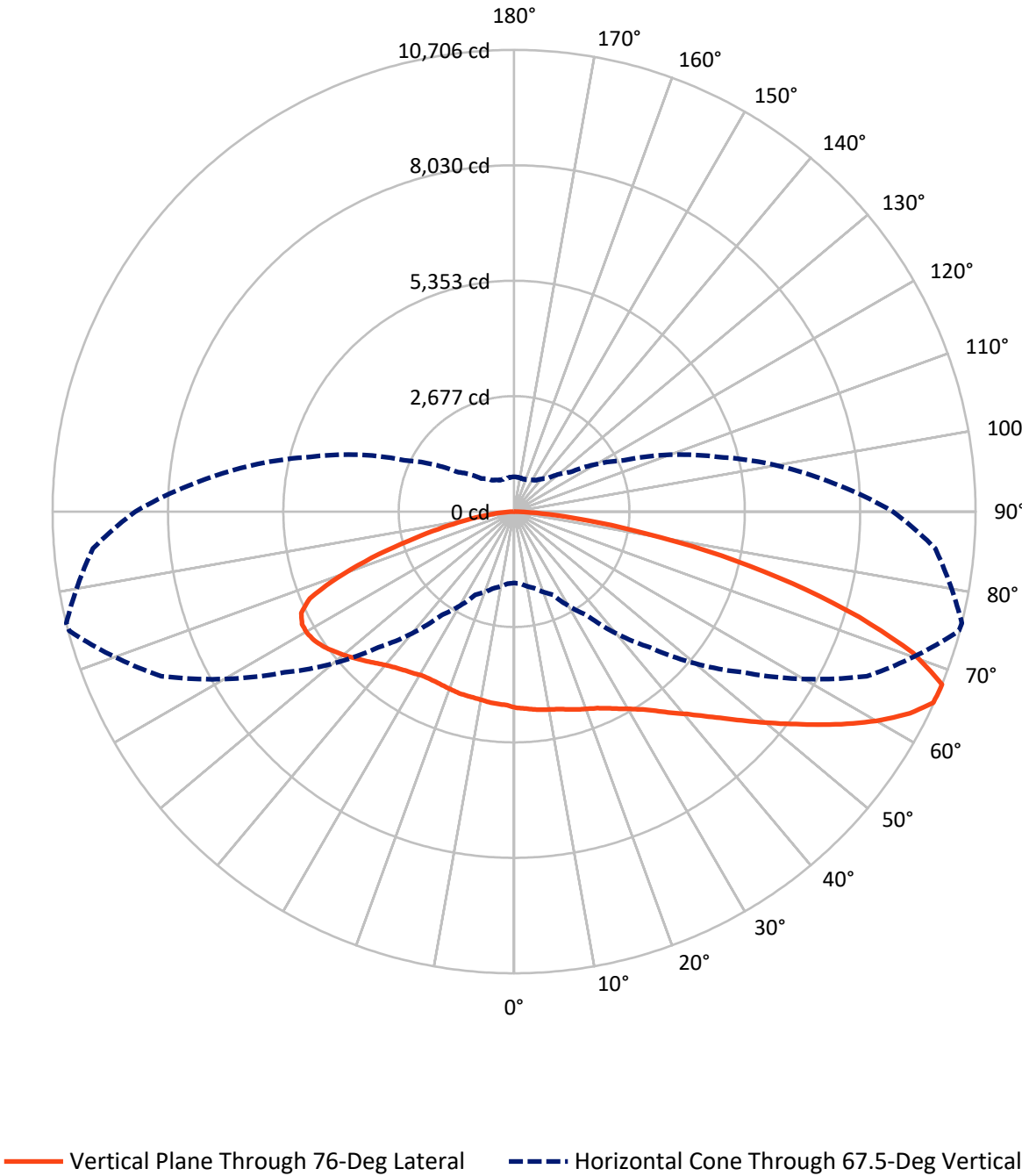


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Luminous Intensity Polar Plot



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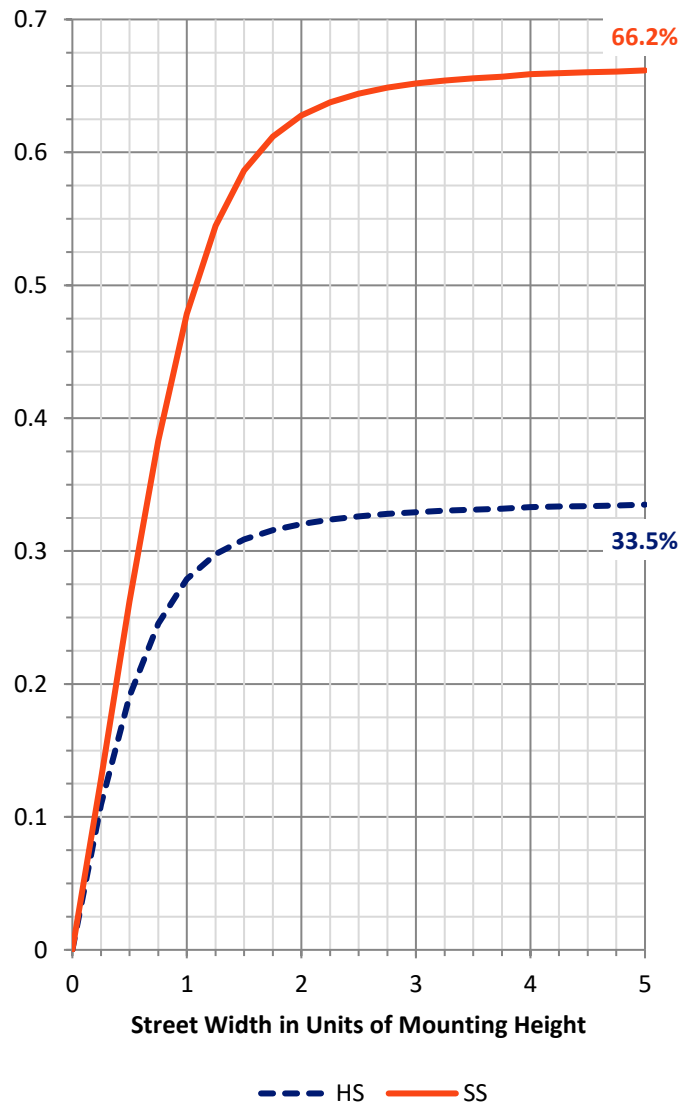
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7611.6	0.0	7611.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	14914.4	0.0	14914.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	22526.0	0.0	22526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	438.8	1.9
10°-20°	1341.4	6.0
20°-30°	2279.1	10.1
30°-40°	3242.8	14.4
40°-50°	4095.5	18.2
50°-60°	4434.2	19.7
60°-70°	4124.3	18.3
70°-80°	2215.1	9.8
80°-90°	354.9	1.6
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°	22526.0	100.0
0°-180°	22526.0	100.0

Coefficient of Utilization



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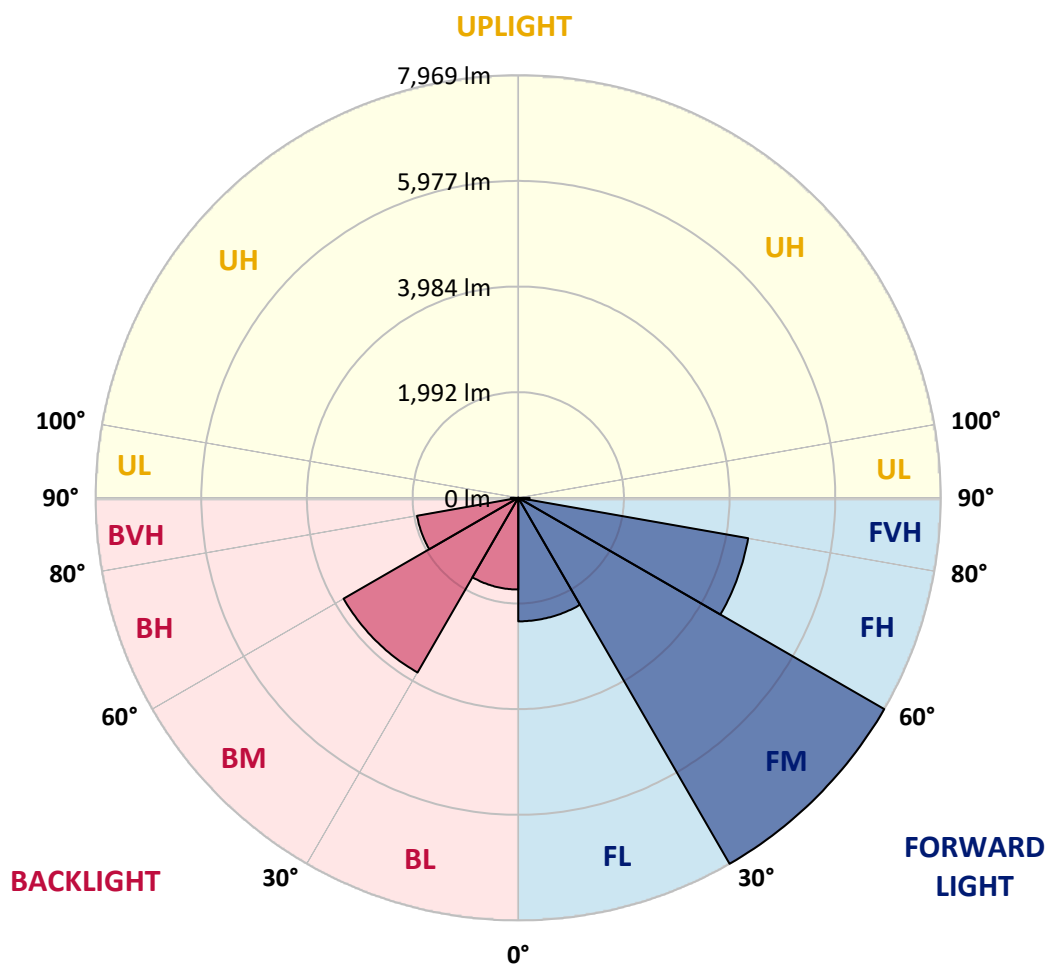
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2329.4	10.3			
FM	(30°-60°)	7968.8	35.4			
FH	(60°-80°)	4401.4	19.5			G2/5000
FVH	(80°-90°)	214.7	1.0			G2/225
BL	(0°-30°)	1729.8	7.7	B3/2500		
BM	(30°-60°)	3803.6	16.9	B3/5000		
BH	(60°-80°)	1938.0	8.6	B3/2500		G3/2500
BVH	(80°-90°)	140.2	0.6			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2
2.5°	4688.2	4679.8	4646.4	4650.6	4650.6	4646.4	4596.2	4575.3	4575.3	4571.1	4525.1
5°	4855.5	4843.0	4805.3	4797.0	4780.2	4759.3	4679.8	4633.8	4612.9	4608.8	4546.0
7.5°	5052.1	5035.3	4989.3	4964.2	4922.4	4868.0	4767.7	4696.6	4646.4	4642.2	4554.4
10°	5248.6	5231.9	5177.5	5131.5	5073.0	4985.1	4855.5	4750.9	4671.5	4663.1	4558.6
12.5°	5482.8	5466.1	5399.2	5340.6	5252.8	5135.7	4964.2	4822.0	4713.3	4700.8	4571.1
15°	5729.6	5704.5	5637.6	5570.7	5461.9	5311.4	5106.4	4918.2	4780.2	4759.3	4608.8
17.5°	5934.5	5901.0	5846.7	5779.8	5658.5	5482.8	5248.6	5014.4	4843.0	4826.2	4646.4
20°	6110.2	6085.1	6026.5	5963.8	5834.1	5641.7	5382.5	5110.6	4901.5	4880.6	4675.7
22.5°	6277.4	6244.0	6210.5	6164.5	6022.3	5809.0	5537.2	5227.7	4976.8	4951.7	4713.3
25°	6469.8	6432.2	6419.6	6394.5	6227.3	6009.8	5725.4	5374.1	5081.3	5052.1	4780.2
27.5°	6708.2	6666.4	6641.3	6641.3	6440.5	6214.7	5926.1	5545.6	5202.6	5177.5	4863.9
30°	6959.1	6908.9	6871.3	6871.3	6645.5	6419.6	6122.7	5717.0	5340.6	5311.4	4972.6
32.5°	7180.8	7130.6	7088.8	7084.6	6850.4	6624.6	6327.6	5905.2	5507.9	5470.3	5106.4
35°	7352.3	7306.3	7268.6	7277.0	7055.3	6833.7	6557.6	6156.2	5717.0	5675.2	5282.1
37.5°	7456.8	7440.1	7419.2	7448.4	7243.5	7034.4	6796.0	6398.7	5955.4	5917.8	5499.6
40°	7511.2	7498.6	7582.3	7619.9	7402.4	7214.2	7034.4	6649.7	6214.7	6172.9	5750.5
42.5°	7590.6	7695.2	7728.7	7720.3	7519.5	7352.3	7251.9	6921.5	6520.0	6482.4	6051.6
45°	7306.3	7281.2	7465.2	7565.5	7527.9	7440.1	7456.8	7247.7	6875.5	6837.8	6398.7
47.5°	6925.7	6892.2	6996.8	7243.5	7389.9	7473.5	7640.8	7586.5	7285.3	7251.9	6804.4
50°	6122.7	6168.7	6557.6	6888.0	7176.6	7465.2	7795.6	7950.3	7737.0	7703.6	7239.3
52.5°	5231.9	5277.9	5683.6	6444.7	6917.3	7402.4	7908.5	8314.2	8226.3	8188.7	7703.6
55°	4583.7	4684.0	5144.1	5696.1	6549.3	7205.9	7975.4	8686.4	8753.3	8719.8	8209.6
57.5°	3939.6	4014.9	4362.0	4851.3	6047.4	6862.9	7971.2	9033.5	9305.3	9271.9	8724.0
60°	3182.6	3278.8	3554.8	4081.8	5378.3	6453.1	7854.1	9305.3	9836.5	9811.4	9221.7
62.5°	2664.0	2693.3	2889.9	3345.7	4516.7	5934.5	7590.6	9451.7	10317.4	10300.7	9669.2
65°	2145.5	2149.6	2329.5	2710.0	3684.5	5290.4	7143.1	9397.3	10681.3	10689.6	9991.2
67.5°	1656.1	1677.1	1840.2	2128.7	2927.5	4454.0	6503.3	9029.3	10685.4	10706.4	9807.2
70°	1145.9	1162.6	1409.4	1689.6	2262.6	3550.7	5637.6	8054.9	9807.2	9823.9	8790.9
72.5°	807.2	815.5	1079.0	1350.8	1769.1	2676.6	4253.3	6662.2	8360.2	8372.7	7394.1
75°	602.2	610.6	761.2	1024.6	1355.0	1852.7	2906.6	5102.2	6678.9	6678.9	5838.3
77.5°	426.6	430.8	493.5	706.8	903.3	1250.5	1748.1	3341.6	4901.5	4909.9	4253.3
80°	288.6	292.8	322.0	476.8	564.6	677.5	949.4	1752.3	3090.6	3103.2	2701.7
82.5°	150.6	158.9	179.8	242.6	284.4	376.4	489.3	890.8	1710.5	1744.0	1622.7
85°	58.6	58.6	66.9	79.5	104.6	146.4	225.8	338.8	773.7	798.8	715.2
87.5°	20.9	20.9	25.1	25.1	29.3	33.5	37.6	50.2	87.8	87.8	83.6
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°	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2	4550.2
2.5°	4508.4	4508.4	4487.5	4495.8	4491.7	4483.3	4474.9	4487.5	4474.9	4445.6	4441.5
5°	4516.7	4508.4	4474.9	4470.7	4458.2	4441.5	4420.6	4428.9	4408.0	4382.9	4378.7
7.5°	4520.9	4504.2	4458.2	4441.5	4416.4	4382.9	4349.5	4349.5	4320.2	4295.1	4290.9
10°	4512.6	4491.7	4428.9	4395.5	4349.5	4299.3	4253.3	4240.7	4207.3	4178.0	4178.0
12.5°	4516.7	4487.5	4408.0	4353.6	4290.9	4228.2	4169.6	4152.9	4123.6	4094.3	4090.2
15°	4541.8	4500.0	4399.6	4328.5	4236.5	4165.4	4102.7	4090.2	4065.1	4044.2	4044.2
17.5°	4566.9	4512.6	4387.1	4286.7	4173.8	4094.3	4035.8	4035.8	4019.1	4006.5	4006.5
20°	4579.5	4516.7	4362.0	4228.2	4098.5	4014.9	3960.5	3968.9	3964.7	3960.5	3960.5
22.5°	4608.8	4525.1	4341.1	4173.8	4019.1	3931.2	3881.1	3893.6	3889.4	3889.4	3893.6
25°	4654.8	4546.0	4324.4	4123.6	3943.8	3847.6	3793.2	3801.6	3801.6	3801.6	3801.6
27.5°	4717.5	4587.8	4320.2	4077.6	3868.5	3759.8	3692.9	3692.9	3676.1	3680.3	3684.5
30°	4813.7	4667.3	4328.5	4035.8	3789.0	3651.0	3571.6	3559.0	3554.8	3563.2	3567.4
32.5°	4930.8	4776.0	4378.7	4006.5	3705.4	3529.8	3429.4	3425.2	3412.7	3412.7	3412.7
35°	5077.2	4880.6	4424.7	4002.3	3621.8	3400.1	3291.4	3278.8	3249.5	3237.0	3237.0
37.5°	5265.4	5043.7	4479.1	3973.1	3550.7	3274.6	3145.0	3103.2	3069.7	3065.5	3065.5
40°	5495.4	5227.7	4558.6	3939.6	3475.4	3145.0	2973.5	2902.4	2906.6	2923.3	2923.3
42.5°	5767.2	5453.6	4658.9	3922.9	3366.6	3011.2	2772.8	2689.1	2718.4	2735.1	2739.3
45°	6085.1	5721.2	4771.9	3902.0	3266.3	2860.6	2559.5	2454.9	2467.5	2471.7	2475.8
47.5°	6453.1	6018.1	4889.0	3885.2	3153.4	2672.4	2325.3	2187.3	2183.1	2158.0	2166.4
50°	6837.8	6331.8	5010.2	3856.0	3015.3	2450.8	2078.5	1915.4	1882.0	1844.3	1848.5
52.5°	7247.7	6653.8	5123.2	3810.0	2843.9	2224.9	1844.3	1668.7	1601.8	1559.9	1568.3
55°	7699.4	6984.2	5231.9	3738.9	2664.0	1999.1	1635.2	1455.4	1371.8	1338.3	1342.5
57.5°	8113.4	7302.1	5311.4	3651.0	2467.5	1794.2	1451.2	1275.6	1221.2	1217.0	1221.2
60°	8514.9	7569.7	5344.8	3529.8	2266.7	1606.0	1279.7	1145.9	1108.3	1129.2	1133.4
62.5°	8853.7	7741.2	5328.1	3366.6	2061.8	1426.1	1141.7	1045.5	1020.4	1062.3	1066.5
65°	9050.2	7795.6	5211.0	3132.4	1840.2	1250.5	1012.1	907.5	895.0	920.1	932.6
67.5°	8790.9	7456.8	4893.1	2810.4	1593.4	1087.4	886.6	803.0	782.1	803.0	803.0
70°	7791.4	6461.5	4140.3	2300.2	1321.6	928.4	769.5	711.0	694.2	711.0	706.8
72.5°	6490.7	5374.1	3262.1	1794.2	1041.4	782.1	669.1	614.8	598.1	581.3	573.0
75°	5035.3	4081.8	2367.1	1317.4	786.2	627.3	560.4	510.2	468.4	485.1	476.8
77.5°	3688.7	2864.8	1677.1	911.7	564.6	485.1	439.1	401.5	372.2	405.7	401.5
80°	2375.5	1852.7	1120.8	610.6	388.9	338.8	322.0	301.1	330.4	430.8	439.1
82.5°	1451.2	1175.2	669.1	397.3	255.1	225.8	209.1	209.1	338.8	372.2	376.4
85°	648.2	623.1	363.8	204.9	142.2	129.6	117.1	150.6	138.0	100.4	104.6
87.5°	104.6	108.7	79.5	71.1	54.4	54.4	41.8	29.3	20.9	12.5	12.5
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)