

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: P835966

Luminaire Tested: **ARCH3-120-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

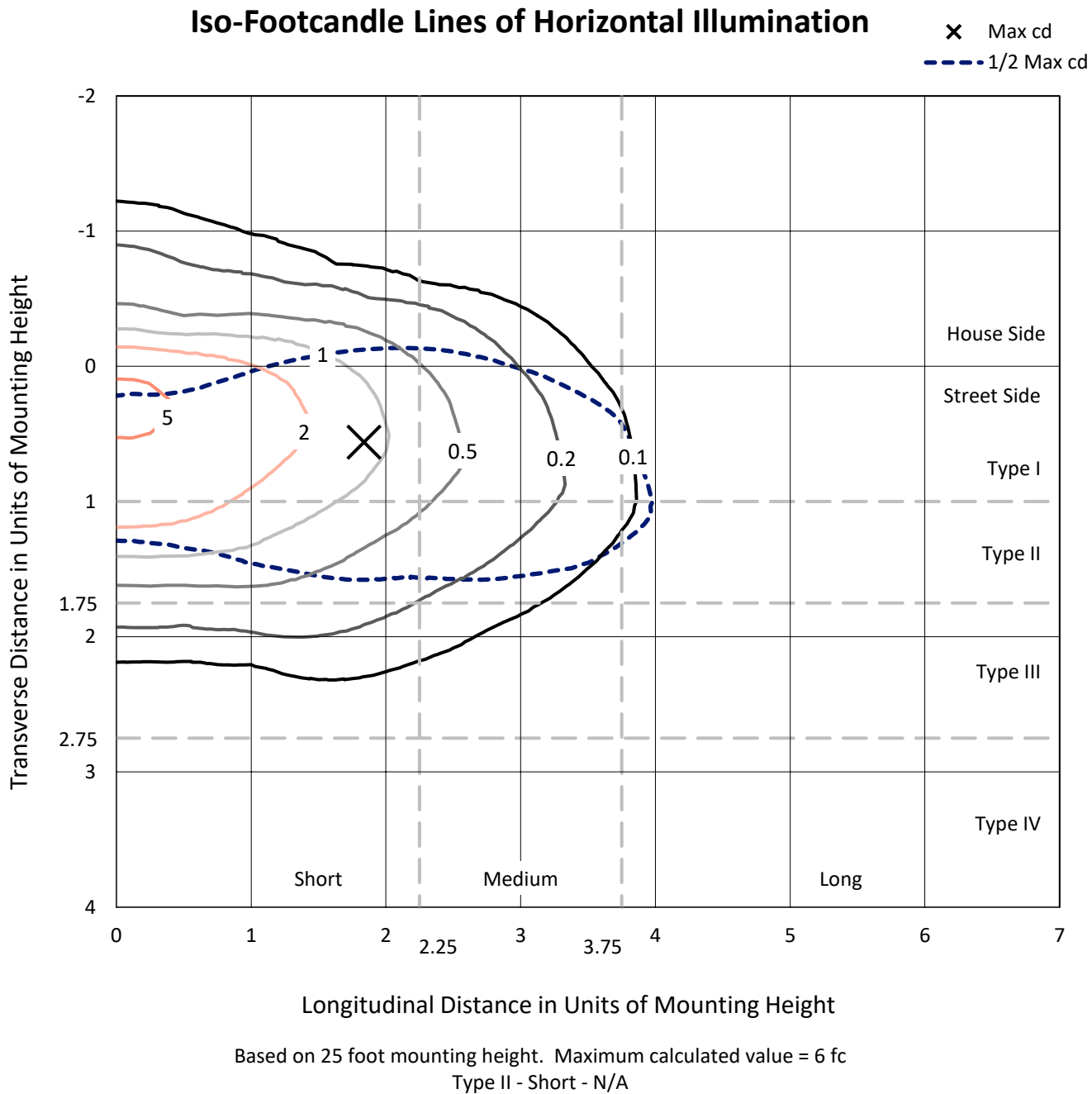
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12613 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.7
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

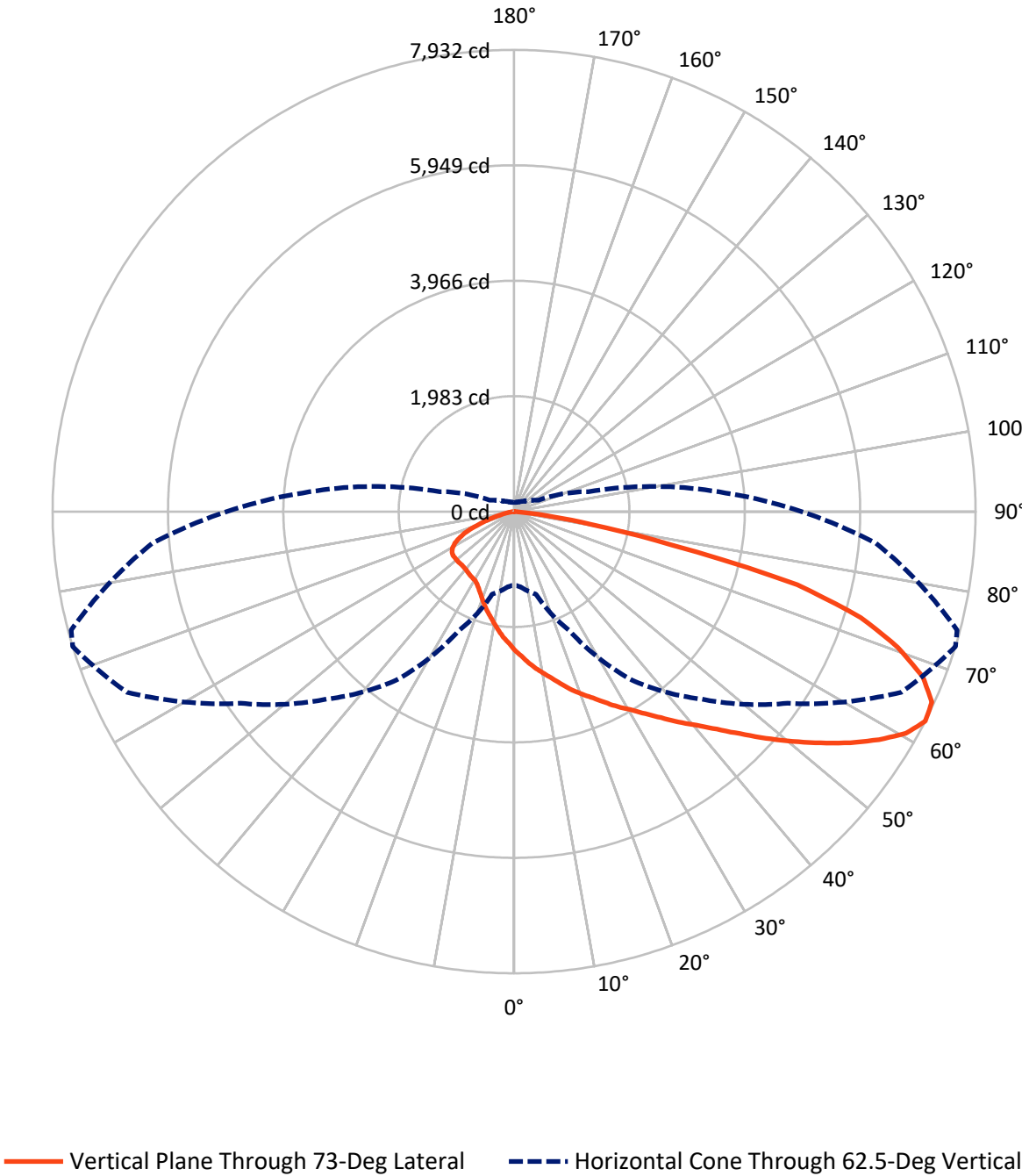


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Luminous Intensity Polar Plot



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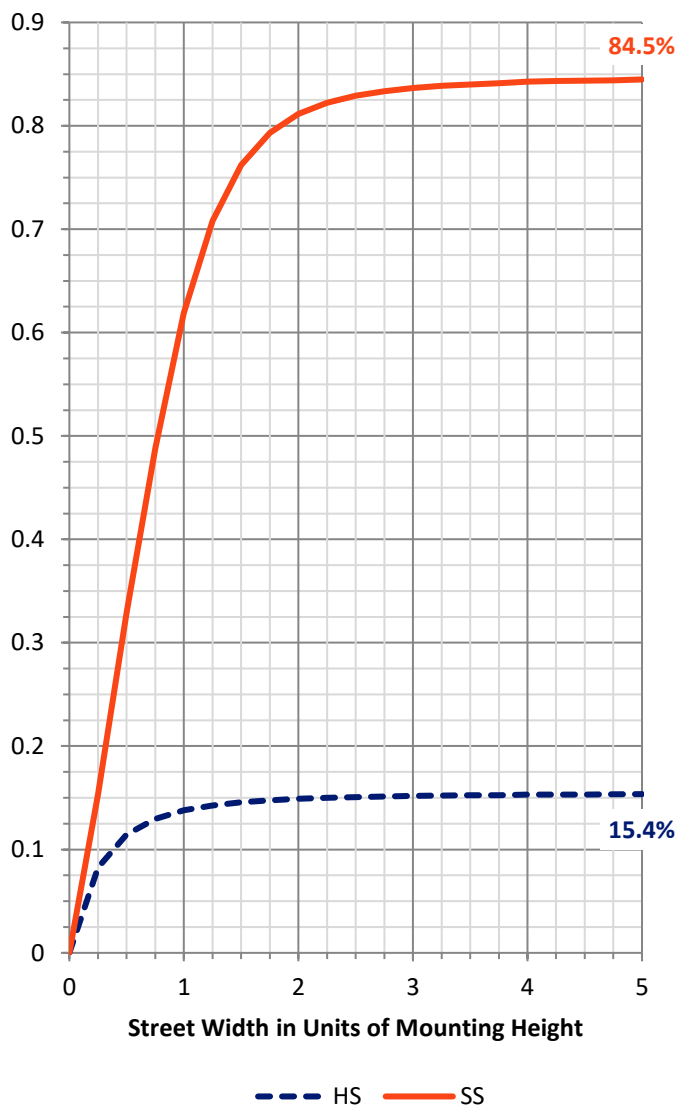
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1955.2	0.0	1955.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	10657.8	0.0	10657.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	12613.0	0.0	12613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.7	1.8
10°-20°	696.2	5.5
20°-30°	1158.9	9.2
30°-40°	1748.6	13.9
40°-50°	2444.0	19.4
50°-60°	2699.6	21.4
60°-70°	2351.7	18.6
70°-80°	1187.9	9.4
80°-90°	95.3	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°	12613.0	100.0
0°-180°	12613.0	100.0

Coefficient of Utilization



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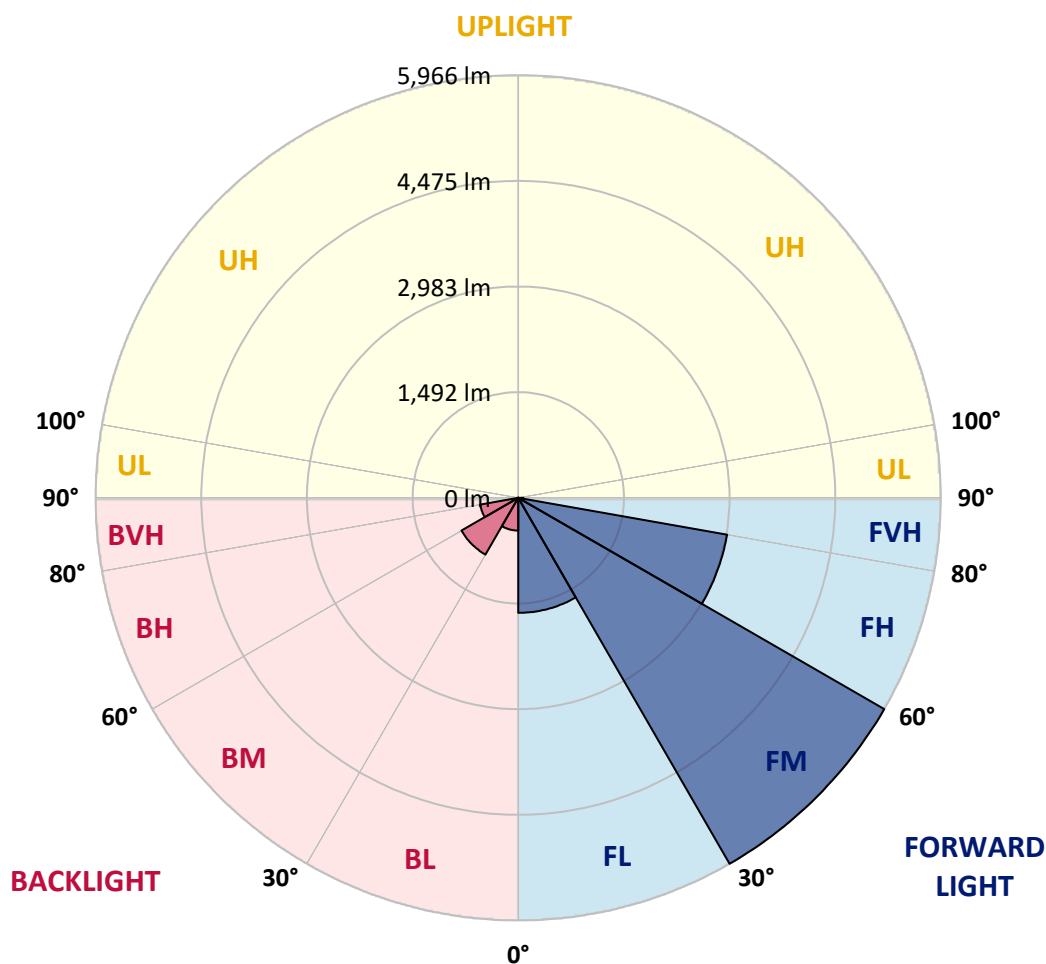
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1623.7	12.9			
FM	(30°-60°)	5966.4	47.3			
FH	(60°-80°)	2993.9	23.7			G2/5000
FVH	(80°-90°)	73.8	0.6			G1/100
BL	(0°-30°)	462.1	3.7	B1/500		
BM	(30°-60°)	925.8	7.3	B1/1000		
BH	(60°-80°)	545.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	21.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3
2.5°	2718.1	2748.3	2731.8	2742.8	2687.9	2652.1	2610.9	2531.2	2487.2	2481.7	2429.5
5°	3116.6	3149.6	3122.1	3113.9	3017.7	2935.2	2841.8	2701.6	2608.2	2591.7	2476.2
7.5°	3515.1	3545.3	3512.4	3487.6	3358.5	3212.8	3075.4	2869.3	2723.6	2696.1	2514.7
10°	3795.4	3822.9	3798.2	3773.5	3638.8	3490.4	3295.2	3025.9	2828.0	2784.1	2539.5
12.5°	4007.1	4023.6	4012.6	3990.6	3864.2	3704.7	3517.9	3201.8	2946.2	2891.2	2577.9
15°	4180.2	4207.7	4194.0	4177.5	4056.5	3897.1	3718.5	3385.9	3083.6	3014.9	2635.6
17.5°	4295.6	4314.9	4317.6	4317.6	4210.4	4053.8	3880.6	3553.6	3221.0	3133.1	2690.6
20°	4347.9	4369.8	4383.6	4405.6	4317.6	4183.0	4007.1	3696.5	3350.2	3251.3	2742.8
22.5°	4372.6	4391.8	4427.6	4477.0	4405.6	4292.9	4130.7	3828.4	3479.4	3374.9	2803.3
25°	4391.8	4416.6	4468.8	4562.2	4512.8	4416.6	4276.4	3979.6	3633.3	3526.1	2891.2
27.5°	4444.0	4474.3	4523.8	4636.4	4576.0	4529.2	4430.3	4141.7	3795.4	3685.5	2998.4
30°	4625.4	4650.2	4647.4	4718.9	4644.7	4630.9	4562.2	4298.4	3952.1	3842.2	3124.9
32.5°	4955.2	4980.0	4919.5	4892.0	4729.9	4732.6	4705.1	4466.0	4139.0	4026.3	3270.5
35°	5309.8	5337.3	5257.6	5210.8	4938.7	4859.0	4872.8	4674.9	4347.9	4235.2	3451.9
37.5°	5625.8	5658.8	5590.1	5521.4	5246.6	5062.4	5059.7	4908.5	4587.0	4471.5	3652.5
40°	5799.0	5837.5	5878.7	5840.2	5551.6	5348.2	5260.3	5147.6	4823.3	4705.1	3869.6
42.5°	5881.4	5988.6	6062.8	6038.1	5801.7	5595.6	5491.2	5397.7	5111.9	4996.5	4128.0
45°	5650.6	5653.3	5810.0	5944.6	5900.7	5763.2	5744.0	5678.0	5441.7	5331.8	4419.3
47.5°	5362.0	5340.0	5449.9	5689.0	5812.7	5848.4	5961.1	5988.6	5818.2	5708.3	4716.1
50°	4669.4	4683.2	5040.4	5384.0	5625.8	5856.7	6115.0	6307.4	6205.7	6101.3	5029.4
52.5°	3798.2	3831.2	4240.7	4996.5	5378.5	5774.2	6205.7	6626.2	6601.5	6502.5	5342.8
55°	3045.1	3097.4	3531.6	4350.6	5062.4	5590.1	6244.2	6917.5	7011.0	6920.3	5650.6
57.5°	2327.8	2382.8	2748.3	3589.3	4658.4	5290.5	6216.7	7173.1	7393.0	7335.3	5933.6
60°	1753.4	1808.4	2042.0	2910.5	4152.7	4955.2	6079.3	7340.8	7736.5	7676.1	6139.8
62.5°	1256.0	1300.0	1473.1	2264.6	3537.1	4556.7	5741.3	7343.5	7931.7	7882.2	6238.7
65°	904.2	904.2	1044.4	1616.0	2960.0	4078.5	5230.1	7005.5	7890.5	7876.7	6170.0
67.5°	651.4	656.9	769.5	1129.6	2360.8	3498.6	4567.7	6403.6	7571.6	7640.4	5922.6
70°	461.7	475.5	527.7	788.8	1783.7	2762.1	3858.7	5614.8	6997.2	7118.2	5444.4
72.5°	357.3	365.5	401.3	549.7	1302.7	2053.0	3075.4	4735.4	6230.5	6367.9	4793.1
75°	274.8	283.1	310.6	404.0	934.4	1440.1	2184.9	3674.5	5023.9	5268.5	3850.4
77.5°	200.6	211.6	230.9	294.1	544.2	915.2	1324.7	2066.7	2773.1	2888.5	2017.3
80°	93.4	107.2	134.7	189.6	294.1	431.5	470.0	797.0	1332.9	1393.4	1093.8
82.5°	52.2	66.0	77.0	115.4	148.4	153.9	159.4	200.6	502.9	555.2	459.0
85°	24.7	33.0	35.7	49.5	49.5	44.0	52.2	38.5	82.4	98.9	96.2
87.5°	0.0	2.7	5.5	13.7	11.0	8.2	8.2	8.2	8.2	11.0	8.2
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°	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3	2388.3
2.5°	2404.8	2369.1	2286.6	2215.2	2168.4	2127.2	2072.2	2047.5	2003.5	2011.8	1987.0
5°	2418.5	2352.6	2206.9	2072.2	1973.3	1885.4	1789.2	1734.2	1673.7	1668.2	1649.0
7.5°	2426.8	2325.1	2116.2	1926.6	1775.4	1640.8	1511.6	1440.1	1365.9	1349.4	1332.9
10°	2418.5	2283.9	2022.8	1775.4	1574.8	1407.1	1261.5	1170.8	1093.8	1074.6	1058.1
12.5°	2426.8	2261.9	1934.8	1635.3	1396.2	1206.5	1041.6	948.2	876.7	857.5	846.5
15°	2446.0	2248.1	1860.6	1508.8	1236.7	1025.1	863.0	783.3	725.6	706.3	700.8
17.5°	2462.5	2234.4	1780.9	1385.2	1077.3	865.7	725.6	659.6	610.1	590.9	585.4
20°	2484.5	2215.2	1701.2	1267.0	937.2	739.3	615.6	557.9	519.4	505.7	502.9
22.5°	2503.7	2201.4	1627.0	1148.8	808.0	637.6	533.2	486.5	459.0	445.2	445.2
25°	2553.2	2206.9	1563.8	1038.9	711.8	557.9	470.0	434.2	412.2	404.0	404.0
27.5°	2610.9	2228.9	1514.3	945.4	629.4	497.4	426.0	395.8	384.8	373.8	376.5
30°	2693.4	2272.9	1481.3	868.5	568.9	450.7	390.3	368.3	357.3	354.5	354.5
32.5°	2797.8	2344.3	1478.6	819.0	524.9	415.0	365.5	346.3	340.8	338.0	338.0
35°	2921.5	2407.5	1462.1	797.0	497.4	390.3	346.3	332.5	329.8	329.8	329.8
37.5°	3069.9	2512.0	1451.1	766.8	483.7	376.5	332.5	321.6	321.6	321.6	321.6
40°	3223.8	2597.2	1434.6	739.3	478.2	368.3	324.3	310.6	310.6	310.6	310.6
42.5°	3407.9	2720.8	1429.1	725.6	470.0	362.8	313.3	296.8	299.6	299.6	302.3
45°	3630.5	2861.0	1426.4	711.8	467.2	357.3	302.3	283.1	285.8	283.1	283.1
47.5°	3855.9	3023.2	1434.6	703.6	464.5	351.8	294.1	269.3	269.3	266.6	266.6
50°	4092.3	3171.6	1440.1	695.3	459.0	340.8	280.3	258.3	252.8	247.3	250.1
52.5°	4314.9	3309.0	1442.9	681.6	442.5	324.3	269.3	244.6	236.4	228.1	230.9
55°	4537.5	3440.9	1448.4	665.1	420.5	307.8	255.6	230.9	219.9	208.9	208.9
57.5°	4738.1	3556.3	1434.6	623.9	395.8	291.3	241.9	214.4	197.9	186.9	186.9
60°	4875.5	3638.8	1393.4	563.4	362.8	272.1	228.1	197.9	178.6	170.4	170.4
62.5°	4941.5	3652.5	1319.2	464.5	321.6	252.8	211.6	181.4	164.9	159.4	159.4
65°	4878.3	3592.1	1203.8	349.0	277.6	230.9	195.1	167.6	151.2	137.4	137.4
67.5°	4658.4	3421.7	1044.4	263.8	236.4	208.9	178.6	153.9	134.7	123.7	123.7
70°	4215.9	3067.1	808.0	211.6	200.6	181.4	162.2	137.4	120.9	107.2	107.2
72.5°	3636.0	2599.9	568.9	170.4	170.4	153.9	137.4	120.9	104.4	93.4	93.4
75°	2789.6	1923.8	382.0	137.4	140.2	129.2	112.7	98.9	87.9	79.7	79.7
77.5°	1522.6	950.9	233.6	101.7	104.4	98.9	87.9	79.7	74.2	66.0	66.0
80°	739.3	417.7	134.7	71.5	74.2	71.5	66.0	57.7	57.7	52.2	52.2
82.5°	310.6	156.7	71.5	49.5	49.5	44.0	41.2	41.2	41.2	38.5	38.5
85°	77.0	30.2	30.2	27.5	27.5	27.5	24.7	24.7	24.7	19.2	22.0
87.5°	11.0	11.0	11.0	11.0	11.0	11.0	8.2	2.7	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)