

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: P841624

Luminaire Tested: **ARCH4-200-750-U-T2U-HSS**

Issue Date: 5/27/2024

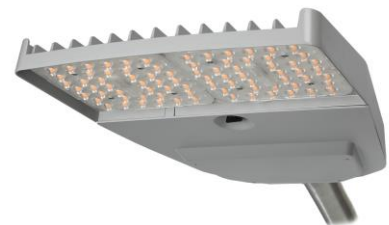
Test Information

Test Method: LM-79-08
Report Number: P841624
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: ARCH4-200-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA 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: 22951 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

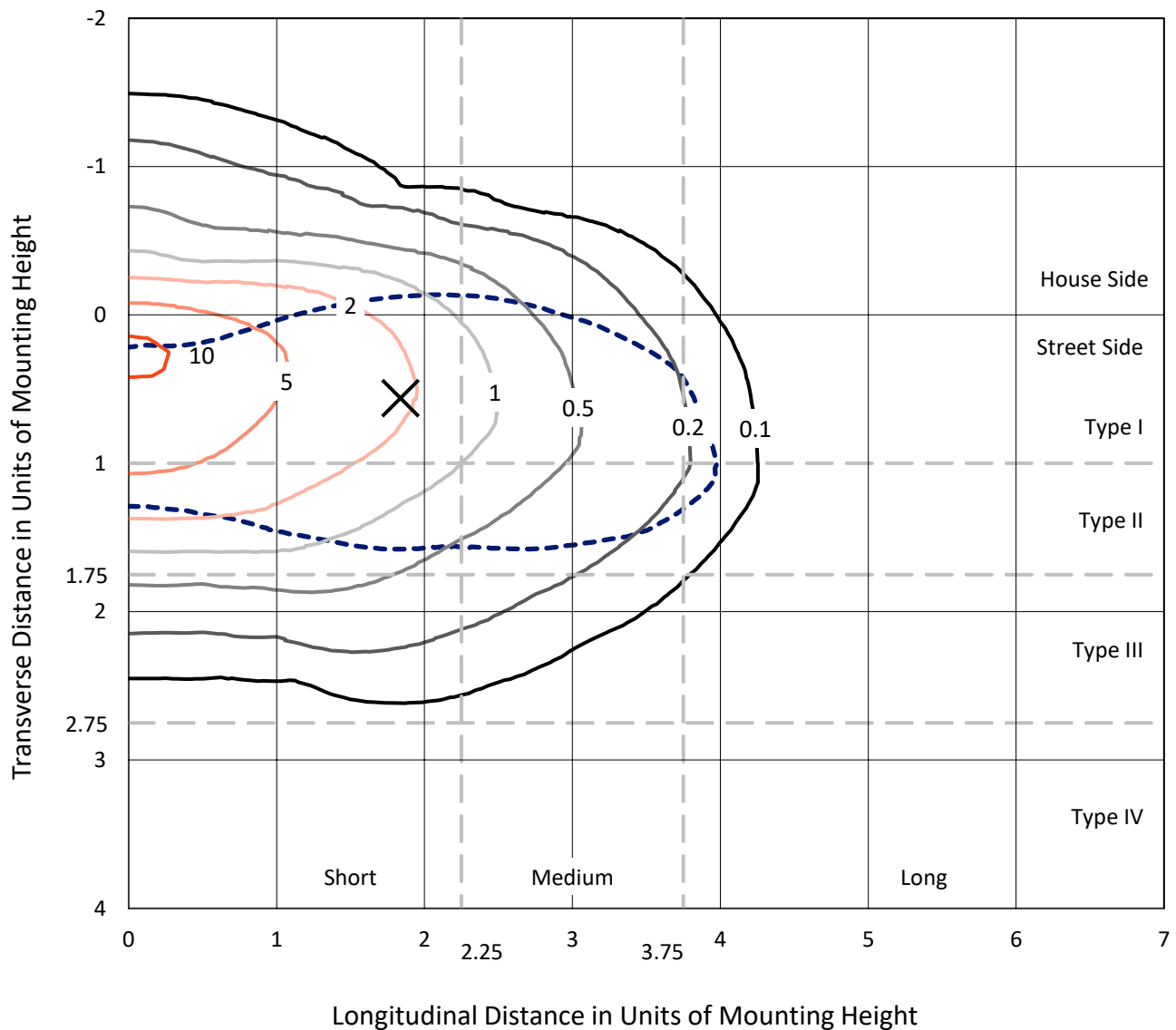
Input Watts (W): 203.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

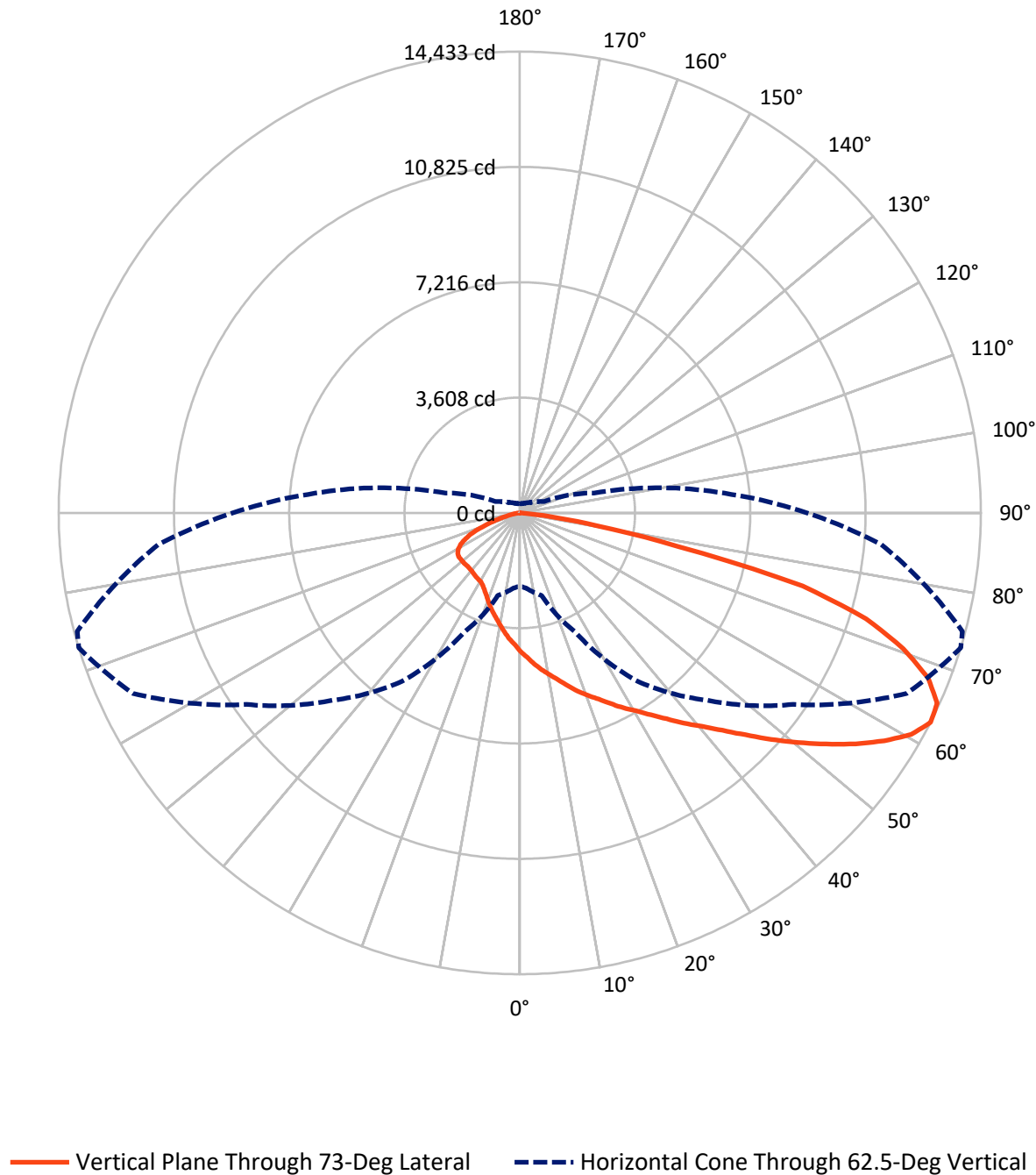
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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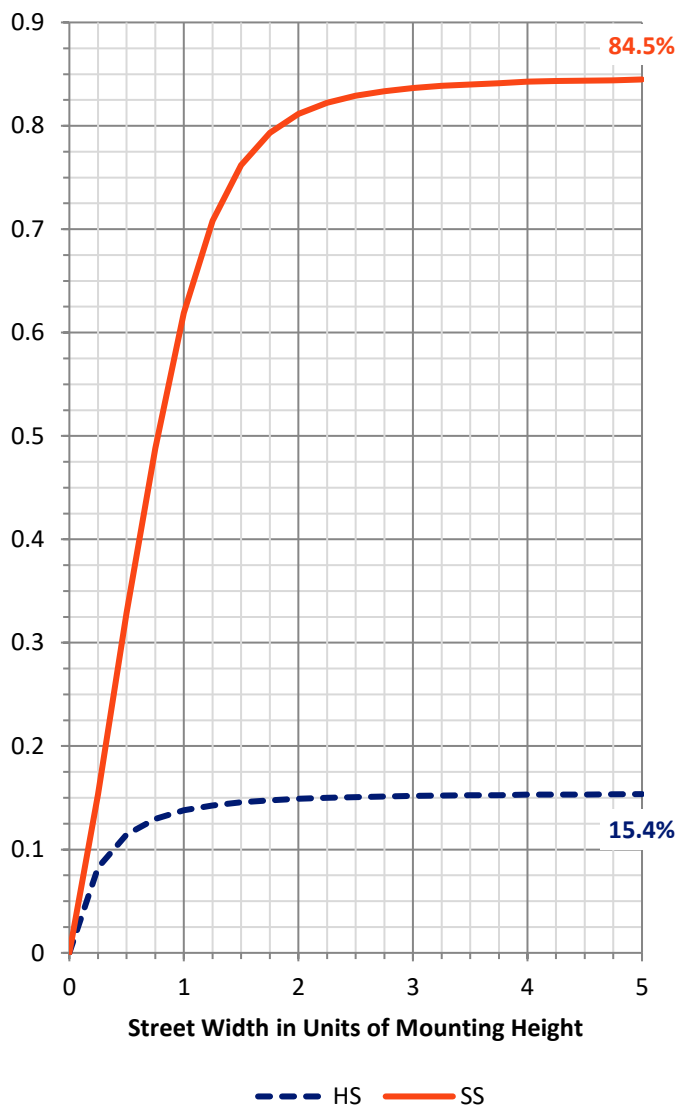
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3557.7	0.0	3557.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	19393.3	0.0	19393.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	22951.0	0.0	22951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.8	1.8
10°-20°	1266.9	5.5
20°-30°	2108.7	9.2
30°-40°	3181.7	13.9
40°-50°	4447.2	19.4
50°-60°	4912.3	21.4
60°-70°	4279.2	18.6
70°-80°	2161.6	9.4
80°-90°	173.5	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°	22951.0	100.0
0°-180°	22951.0	100.0

Coefficient of Utilization



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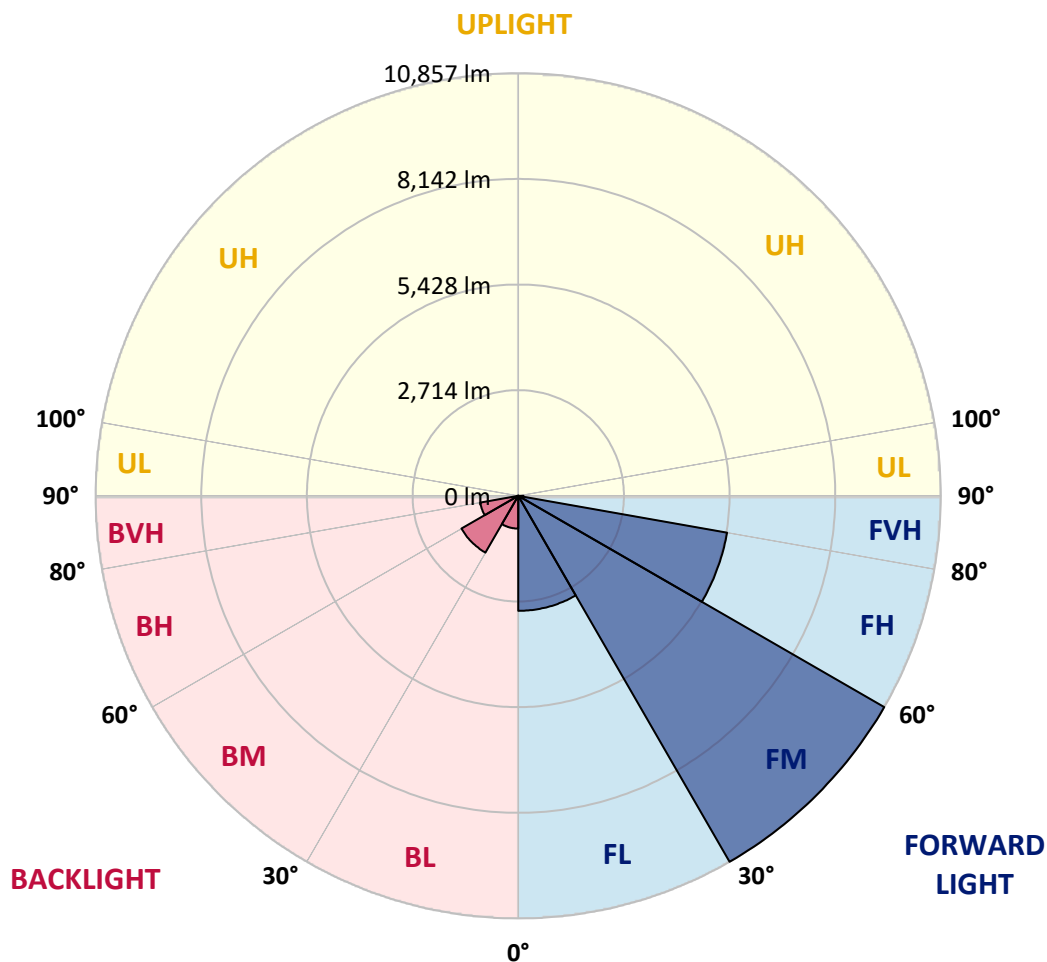
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2954.5	12.9			
FM	(30°-60°)	10856.7	47.3			
FH	(60°-80°)	5447.8	23.7			G3/7500
FVH	(80°-90°)	134.3	0.6			G2/225
BL	(0°-30°)	840.9	3.7	B2/1000		
BM	(30°-60°)	1684.6	7.3	B2/2500		
BH	(60°-80°)	993.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	39.2	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8
2.5°	4945.9	5000.9	4970.9	4990.9	4890.9	4825.9	4750.9	4605.9	4525.9	4515.9	4420.8
5°	5671.1	5731.1	5681.1	5666.1	5491.0	5341.0	5171.0	4915.9	4745.9	4715.9	4505.9
7.5°	6396.2	6451.2	6391.2	6346.2	6111.2	5846.1	5596.1	5221.0	4955.9	4905.9	4575.9
10°	6906.3	6956.3	6911.3	6866.3	6621.3	6351.2	5996.1	5506.0	5146.0	5066.0	4620.9
12.5°	7291.4	7321.4	7301.4	7261.4	7031.3	6741.3	6401.2	5826.1	5361.0	5261.0	4690.9
15°	7606.4	7656.4	7631.4	7601.4	7381.4	7091.3	6766.3	6161.2	5611.1	5486.0	4795.9
17.5°	7816.5	7851.5	7856.5	7856.5	7661.4	7376.4	7061.3	6466.2	5861.1	5701.1	4895.9
20°	7911.5	7951.5	7976.5	8016.5	7856.5	7611.4	7291.4	6726.3	6096.2	5916.1	4990.9
22.5°	7956.5	7991.5	8056.5	8146.5	8016.5	7811.5	7516.4	6966.3	6331.2	6141.2	5101.0
25°	7991.5	8036.5	8131.5	8301.6	8211.6	8036.5	7781.5	7241.4	6611.2	6416.2	5261.0
27.5°	8086.5	8141.5	8231.6	8436.6	8326.6	8241.6	8061.5	7536.4	6906.3	6706.3	5456.0
30°	8416.6	8461.6	8456.6	8586.6	8451.6	8426.6	8301.6	7821.5	7191.4	6991.3	5686.1
32.5°	9016.7	9061.7	8951.7	8901.7	8606.6	8611.6	8561.6	8126.5	7531.4	7326.4	5951.1
35°	9661.8	9711.8	9566.8	9481.8	8986.7	8841.7	8866.7	8506.6	7911.5	7706.5	6281.2
37.5°	10236.9	10296.9	10171.9	10046.9	9546.8	9211.7	9206.7	8931.7	8346.6	8136.5	6646.3
40°	10552.0	10622.0	10697.0	10627.0	10101.9	9731.8	9571.8	9366.8	8776.7	8561.6	7041.3
42.5°	10702.0	10897.1	11032.1	10987.1	10557.0	10181.9	9991.9	9821.9	9301.8	9091.7	7511.4
45°	10281.9	10286.9	10572.0	10817.0	10737.0	10487.0	10452.0	10332.0	9901.9	9701.8	8041.5
47.5°	9756.8	9716.8	9916.9	10352.0	10577.0	10642.0	10847.0	10897.1	10587.0	10387.0	8581.6
50°	8496.6	8521.6	9171.7	9796.8	10236.9	10657.0	11127.1	11477.2	11292.1	11102.1	9151.7
52.5°	6911.3	6971.3	7716.5	9091.7	9786.8	10507.0	11292.1	12057.3	12012.3	11832.2	9721.8
55°	5541.0	5636.1	6426.2	7916.5	9211.7	10171.9	11362.1	12587.4	12757.4	12592.4	10281.9
57.5°	4235.8	4335.8	5000.9	6531.2	8476.6	9626.8	11312.1	13052.5	13452.5	13347.5	10797.0
60°	3190.6	3290.6	3715.7	5296.0	7556.4	9016.7	11062.1	13357.5	14077.7	13967.6	11172.1
62.5°	2285.4	2365.4	2680.5	4120.8	6436.2	8291.6	10447.0	13362.5	14432.7	14342.7	11352.1
65°	1645.3	1645.3	1900.4	2940.6	5386.0	7421.4	9516.8	12747.4	14357.7	14332.7	11227.1
67.5°	1185.2	1195.2	1400.3	2055.4	4295.8	6366.2	8311.6	11652.2	13777.6	13902.6	10777.0
70°	840.2	865.2	960.2	1435.3	3245.6	5025.9	7021.3	10216.9	12732.4	12952.4	9906.9
72.5°	650.1	665.1	730.1	1000.2	2370.4	3735.7	5596.1	8616.6	11337.1	11587.2	8721.6
75°	500.1	515.1	565.1	735.1	1700.3	2620.5	3975.8	6686.3	9141.7	9586.8	7006.3
77.5°	365.1	385.1	420.1	535.1	990.2	1665.3	2410.5	3760.7	5046.0	5256.0	3670.7
80°	170.0	195.0	245.0	345.1	535.1	785.1	855.2	1450.3	2425.5	2535.5	1990.4
82.5°	95.0	120.0	140.0	210.0	270.1	280.1	290.1	365.1	915.2	1010.2	835.2
85°	45.0	60.0	65.0	90.0	90.0	80.0	95.0	70.0	150.0	180.0	175.0
87.5°	0.0	5.0	10.0	25.0	20.0	15.0	15.0	15.0	15.0	20.0	15.0
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°	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8	4345.8
2.5°	4375.8	4310.8	4160.8	4030.8	3945.7	3870.7	3770.7	3725.7	3645.7	3660.7	3615.7
5°	4400.8	4280.8	4015.8	3770.7	3590.7	3430.6	3255.6	3155.6	3045.6	3035.6	3000.6
7.5°	4415.8	4230.8	3850.7	3505.7	3230.6	2985.6	2750.5	2620.5	2485.5	2455.5	2425.5
10°	4400.8	4155.8	3680.7	3230.6	2865.5	2560.5	2295.4	2130.4	1990.4	1955.4	1925.4
12.5°	4415.8	4115.8	3520.7	2975.6	2540.5	2195.4	1895.4	1725.3	1595.3	1560.3	1540.3
15°	4450.8	4090.8	3385.6	2745.5	2250.4	1865.4	1570.3	1425.3	1320.2	1285.2	1275.2
17.5°	4480.8	4065.8	3240.6	2520.5	1960.4	1575.3	1320.2	1200.2	1110.2	1075.2	1065.2
20°	4520.9	4030.8	3095.6	2305.4	1705.3	1345.3	1120.2	1015.2	945.2	920.2	915.2
22.5°	4555.9	4005.8	2960.6	2090.4	1470.3	1160.2	970.2	885.2	835.2	810.2	810.2
25°	4645.9	4015.8	2845.5	1890.4	1295.2	1015.2	855.2	790.1	750.1	735.1	735.1
27.5°	4750.9	4055.8	2755.5	1720.3	1145.2	905.2	775.1	720.1	700.1	680.1	685.1
30°	4900.9	4135.8	2695.5	1580.3	1035.2	820.2	710.1	670.1	650.1	645.1	645.1
32.5°	5091.0	4265.8	2690.5	1490.3	955.2	755.1	665.1	630.1	620.1	615.1	615.1
35°	5316.0	4380.8	2660.5	1450.3	905.2	710.1	630.1	605.1	600.1	600.1	600.1
37.5°	5586.1	4570.9	2640.5	1395.3	880.2	685.1	605.1	585.1	585.1	585.1	585.1
40°	5866.1	4725.9	2610.5	1345.3	870.2	670.1	590.1	565.1	565.1	565.1	565.1
42.5°	6201.2	4950.9	2600.5	1320.2	855.2	660.1	570.1	540.1	545.1	545.1	550.1
45°	6606.2	5206.0	2595.5	1295.2	850.2	650.1	550.1	515.1	520.1	515.1	515.1
47.5°	7016.3	5501.0	2610.5	1280.2	845.2	640.1	535.1	490.1	490.1	485.1	485.1
50°	7446.4	5771.1	2620.5	1265.2	835.2	620.1	510.1	470.1	460.1	450.1	455.1
52.5°	7851.5	6021.1	2625.5	1240.2	805.2	590.1	490.1	445.1	430.1	415.1	420.1
55°	8256.6	6261.2	2635.5	1210.2	765.1	560.1	465.1	420.1	400.1	380.1	380.1
57.5°	8621.6	6471.2	2610.5	1135.2	720.1	530.1	440.1	390.1	360.1	340.1	340.1
60°	8871.7	6621.3	2535.5	1025.2	660.1	495.1	415.1	360.1	325.1	310.1	310.1
62.5°	8991.7	6646.3	2400.5	845.2	585.1	460.1	385.1	330.1	300.1	290.1	290.1
65°	8876.7	6536.2	2190.4	635.1	505.1	420.1	355.1	305.1	275.1	250.0	250.0
67.5°	8476.6	6226.2	1900.4	480.1	430.1	380.1	325.1	280.1	245.0	225.0	225.0
70°	7671.4	5581.1	1470.3	385.1	365.1	330.1	295.1	250.0	220.0	195.0	195.0
72.5°	6616.2	4730.9	1035.2	310.1	310.1	280.1	250.0	220.0	190.0	170.0	170.0
75°	5076.0	3500.7	695.1	250.0	255.0	235.0	205.0	180.0	160.0	145.0	145.0
77.5°	2770.5	1730.3	425.1	185.0	190.0	180.0	160.0	145.0	135.0	120.0	120.0
80°	1345.3	760.1	245.0	130.0	135.0	130.0	120.0	105.0	105.0	95.0	95.0
82.5°	565.1	285.1	130.0	90.0	90.0	80.0	75.0	75.0	75.0	70.0	70.0
85°	140.0	55.0	55.0	50.0	50.0	50.0	45.0	45.0	45.0	35.0	40.0
87.5°	20.0	20.0	20.0	20.0	20.0	20.0	15.0	5.0	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)