

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: P1211348

Luminaire Tested: **ARCH4-250-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-250-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 975mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

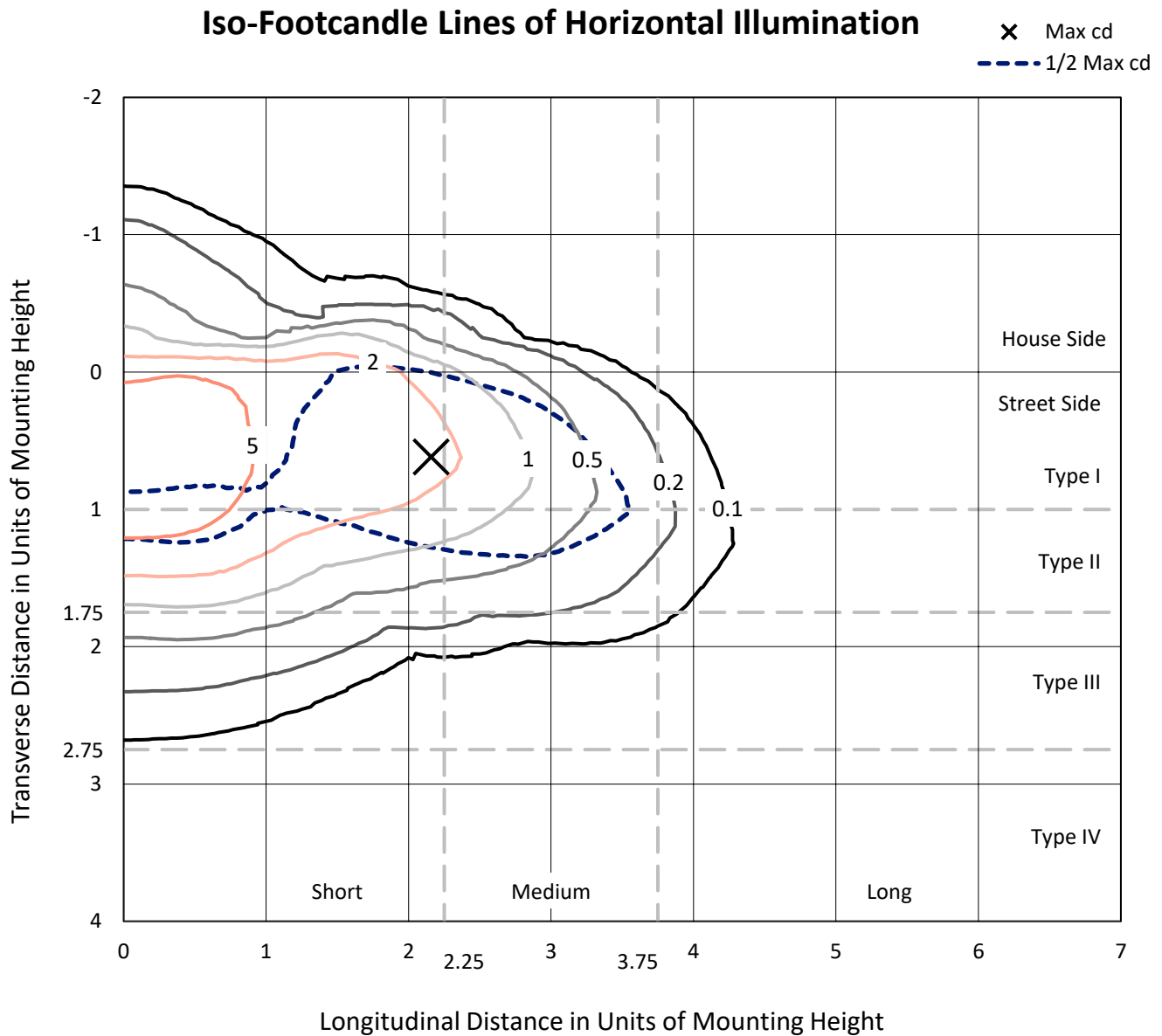
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22349 lumens
Efficiency: N/A
Efficacy: 89.6 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): 249.5
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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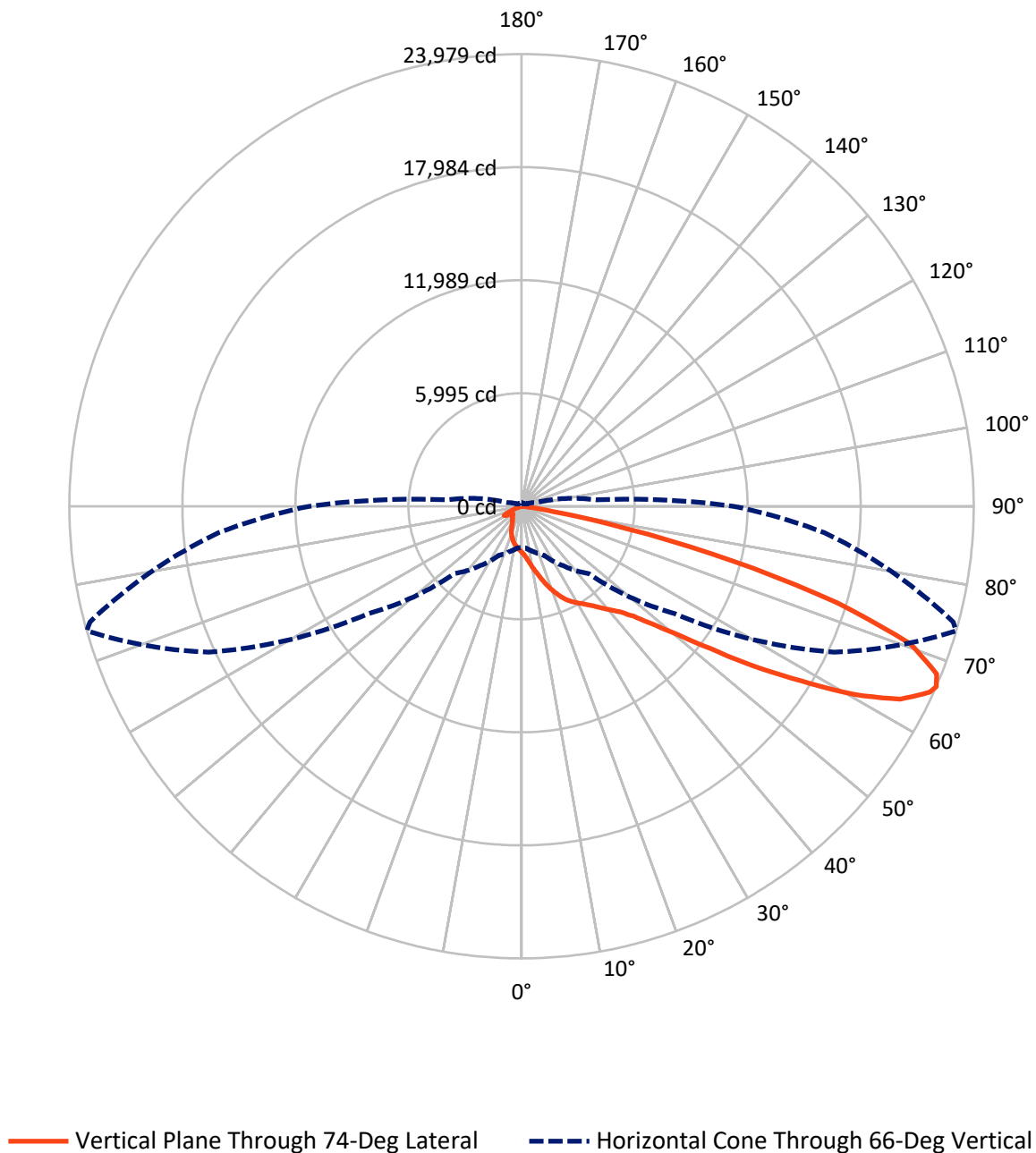


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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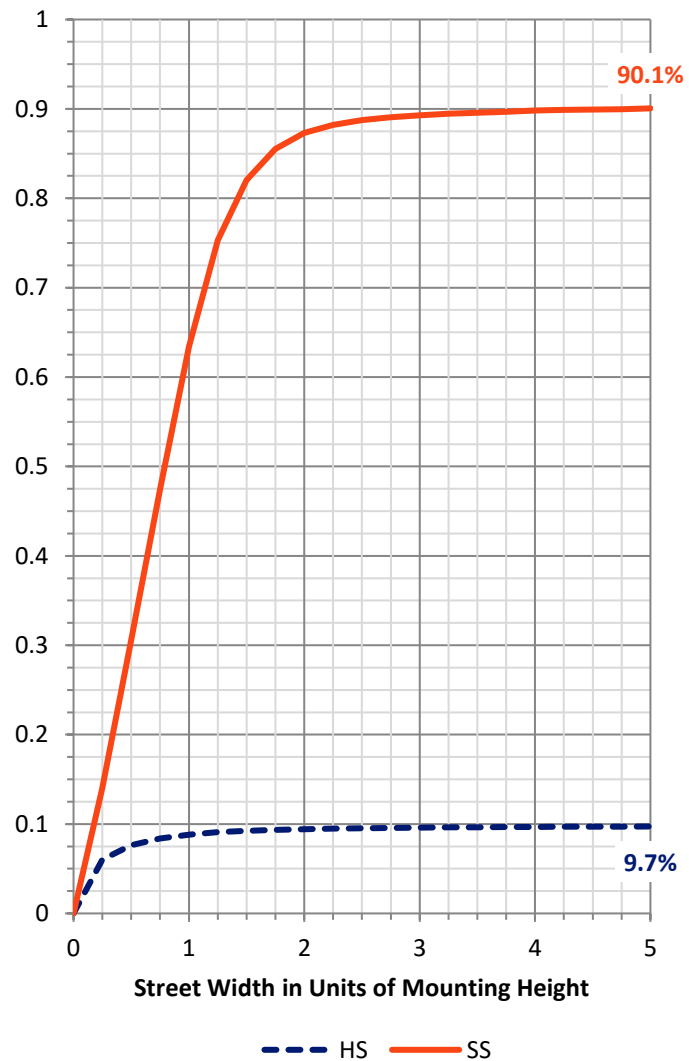
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2190.9	0.0	2190.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	20158.1	0.0	20158.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	22349.0	0.0	22349.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	1.1
10°-20°	763.4	3.4
20°-30°	1456.9	6.5
30°-40°	2553.5	11.4
40°-50°	4378.6	19.6
50°-60°	5694.7	25.5
60°-70°	5155.1	23.1
70°-80°	1989.1	8.9
80°-90°	119.7	0.5
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°	22349.0	100.0
0°-180°	22349.0	100.0

Coefficient of Utilization



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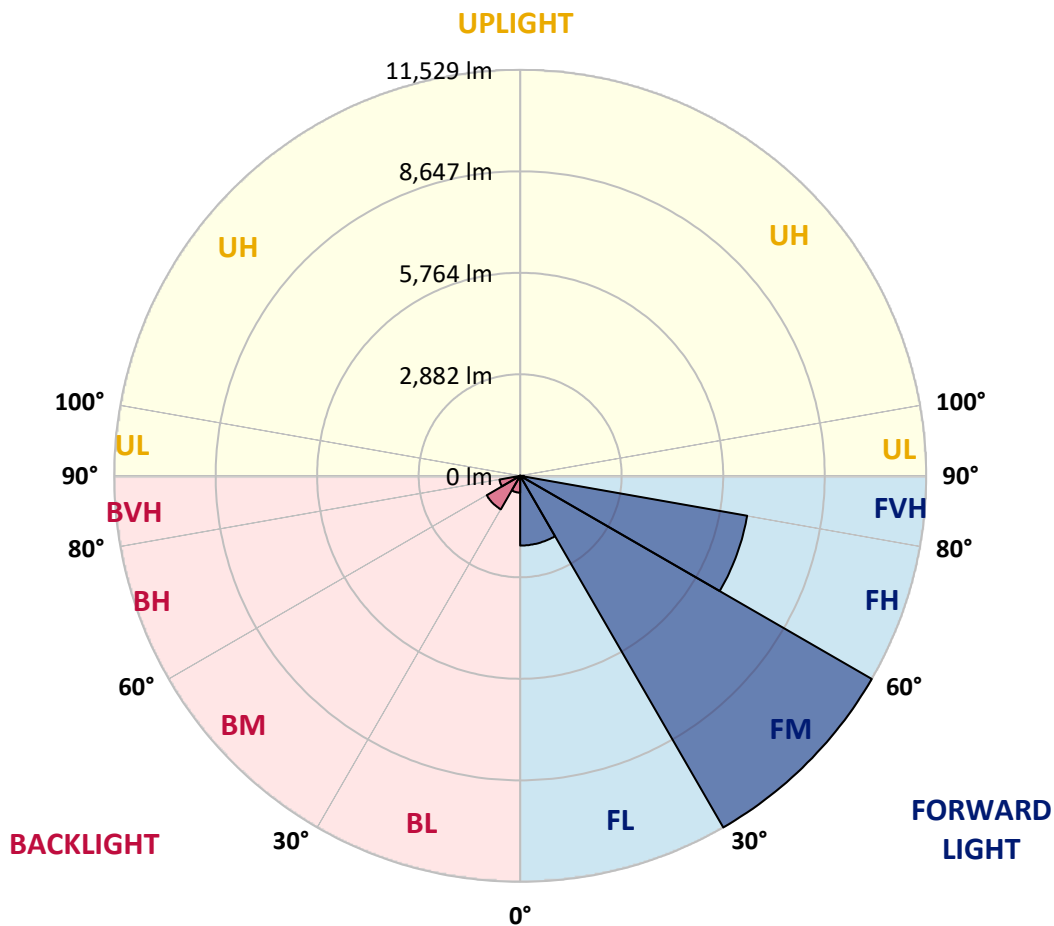
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1980.4	8.9			
FM	(30°-60°)	11528.7	51.6			
FH	(60°-80°)	6545.2	29.3			G3/7500
FVH	(80°-90°)	103.7	0.5			G2/225
BL	(0°-30°)	477.9	2.1	B1/500		
BM	(30°-60°)	1098.0	4.9	B2/2500		
BH	(60°-80°)	599.0	2.7	B2/1000		G2/1000
BVH	(80°-90°)	16.0	0.1			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°	74°	75°	85°
0°	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6
2.5°	2929.1	2905.0	2860.9	2856.9	2820.8	2776.6	2700.4	2620.1	2564.0	2555.9	2487.7
5°	3506.9	3494.9	3450.7	3422.6	3354.4	3250.1	3073.6	2897.0	2748.5	2732.5	2580.0
7.5°	3659.4	3667.4	3675.4	3703.5	3679.4	3631.3	3498.9	3250.1	3017.4	2981.3	2716.4
10°	3683.5	3675.4	3675.4	3711.5	3779.8	3848.0	3831.9	3619.3	3318.3	3274.2	2905.0
12.5°	3944.3	3956.3	3928.2	3912.2	3900.1	3936.2	4056.6	3964.3	3635.3	3599.2	3133.7
15°	4281.3	4277.3	4237.2	4237.2	4201.1	4140.9	4217.1	4285.3	4016.5	3972.4	3394.6
17.5°	4526.1	4542.1	4538.1	4562.2	4550.1	4469.9	4429.8	4570.2	4409.7	4353.5	3691.5
20°	4722.7	4766.8	4782.9	4859.1	4895.2	4839.0	4734.7	4823.0	4786.9	4734.7	3992.4
22.5°	4931.3	4967.4	4995.5	5127.9	5228.3	5216.2	5083.8	5063.7	5152.0	5103.9	4289.3
25°	5140.0	5156.0	5240.3	5400.8	5561.3	5601.4	5465.0	5308.5	5481.0	5436.9	4554.2
27.5°	5368.7	5376.7	5477.0	5673.6	5898.3	5982.6	5874.3	5585.4	5733.8	5733.8	4794.9
30°	5786.0	5866.2	5906.4	6082.9	6279.5	6395.9	6267.5	5878.3	5958.5	5994.6	5047.7
32.5°	6684.8	6696.8	6684.8	6761.0	6801.1	6869.4	6720.9	6207.3	6187.2	6227.4	5296.5
35°	8057.1	8008.9	7880.5	7768.2	7535.4	7407.0	7214.4	6628.6	6468.1	6524.3	5541.2
37.5°	9722.2	9654.0	9361.1	9016.0	8518.5	8004.9	7764.1	7142.2	6825.2	6897.4	5806.1
40°	11311.2	11267.0	10918.0	10492.6	9642.0	8763.3	8253.7	7575.6	7222.5	7250.5	6074.9
42.5°	12619.2	12611.2	12318.3	11872.9	10781.5	9581.8	8831.5	8000.9	7639.8	7683.9	6355.8
45°	13610.3	13534.1	13317.4	12996.4	11885.0	10432.4	9529.6	8646.9	8309.8	8362.0	6777.1
47.5°	13610.3	13622.4	13762.8	13730.7	12655.4	11230.9	10292.0	9461.4	9300.9	9349.1	7471.2
50°	12502.9	12615.2	13241.2	13766.8	13056.6	11852.9	11114.6	10480.6	10645.1	10717.3	8683.0
52.5°	10312.1	10500.7	11588.0	12787.8	12759.7	12165.8	11965.2	11776.6	12514.9	12643.3	10472.6
55°	7836.4	7960.8	9377.2	10954.1	11467.7	11909.0	12707.5	13421.7	14990.6	14962.5	12290.2
57.5°	5854.2	5970.6	7190.4	8939.8	9617.9	10797.6	13088.7	15303.6	17446.3	17554.6	13995.5
60°	4305.4	4393.7	5432.9	6869.4	7848.4	9096.3	12936.2	17157.4	20275.1	20150.7	15500.2
62.5°	3185.9	3234.1	3984.4	4919.3	6219.3	7411.0	11977.2	18425.3	22534.1	22281.3	16338.8
65°	2463.7	2479.7	2868.9	3366.5	4522.1	5761.9	10548.8	18617.9	23782.0	23513.1	16322.8
66°	2194.8	2206.9	2491.7	2876.9	3848.0	5043.7	9922.9	18308.9	23978.6	23693.7	16122.1
67.5°	1841.7	1833.7	2002.2	2255.0	2889.0	3892.1	8811.4	17406.1	23745.8	23601.4	15480.1
70°	1364.2	1368.3	1452.5	1512.7	1689.3	2154.7	6363.8	15099.0	21884.1	21876.0	13718.7
72.5°	1011.1	1023.2	1087.4	1099.4	1055.3	1167.6	3667.4	12009.3	17506.4	17510.5	10255.9
75°	758.4	778.4	798.5	806.5	766.4	738.3	1657.2	8081.1	11515.8	11431.5	5806.1
77.5°	577.8	585.8	601.9	589.8	581.8	509.6	690.1	3940.3	5685.7	5180.1	1881.9
80°	421.3	421.3	437.4	421.3	417.3	365.1	377.2	1263.9	1669.2	1388.3	405.3
82.5°	264.8	260.8	272.8	268.8	260.8	232.7	220.7	353.1	385.2	345.1	196.6
85°	148.5	144.4	140.4	136.4	124.4	104.3	120.4	132.4	176.5	180.6	140.4
87.5°	52.2	52.2	48.1	44.1	36.1	36.1	44.1	44.1	64.2	64.2	72.2
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°	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6	2439.6
2.5°	2455.6	2411.5	2347.3	2263.0	2202.9	2142.7	2078.5	2042.4	1990.2	1978.2	1994.2
5°	2499.8	2419.5	2259.0	2082.5	1930.0	1793.6	1665.2	1588.9	1512.7	1484.6	1496.7
7.5°	2592.1	2455.6	2182.8	1897.9	1645.1	1440.5	1288.0	1199.7	1131.5	1103.4	1111.5
10°	2728.5	2519.8	2110.6	1689.3	1364.2	1147.6	1019.2	963.0	922.9	906.8	910.8
12.5°	2893.0	2612.1	2018.3	1480.6	1123.5	934.9	874.7	862.7	854.7	846.6	850.6
15°	3077.6	2692.4	1909.9	1276.0	934.9	830.6	810.5	806.5	802.5	802.5	802.5
17.5°	3270.2	2764.6	1789.6	1083.4	814.5	766.4	754.3	754.3	754.3	758.4	758.4
20°	3450.7	2820.8	1649.1	910.8	746.3	706.2	698.2	698.2	702.2	706.2	706.2
22.5°	3627.3	2844.8	1484.6	790.5	690.1	654.0	642.0	642.0	642.0	646.0	646.0
25°	3779.8	2844.8	1320.1	714.2	642.0	605.9	589.8	585.8	589.8	589.8	589.8
27.5°	3908.2	2832.8	1159.6	662.1	593.8	557.7	541.7	537.7	545.7	549.7	549.7
30°	4044.6	2816.8	1031.2	613.9	553.7	517.6	501.6	501.6	513.6	529.6	529.6
32.5°	4177.0	2828.8	930.9	573.8	513.6	485.5	469.5	473.5	497.5	521.6	521.6
35°	4317.4	2852.9	870.7	545.7	485.5	457.4	445.4	457.4	481.5	505.6	505.6
37.5°	4457.9	2881.0	834.6	521.6	461.4	433.3	425.3	441.4	469.5	493.5	497.5
40°	4606.3	2905.0	794.5	497.5	445.4	413.3	409.3	425.3	461.4	485.5	489.5
42.5°	4790.9	2953.2	746.3	477.5	429.3	389.2	393.2	405.3	441.4	477.5	481.5
45°	5152.0	3105.7	698.2	457.4	409.3	377.2	369.1	377.2	417.3	457.4	465.4
47.5°	5830.1	3450.7	646.0	437.4	389.2	369.1	337.0	345.1	381.2	425.3	429.3
50°	7130.2	4185.0	617.9	417.3	373.2	341.1	304.9	304.9	333.0	373.2	373.2
52.5°	9156.5	5501.1	634.0	401.2	353.1	313.0	276.9	272.8	288.9	317.0	317.0
55°	11343.3	6945.6	694.2	385.2	329.0	296.9	256.8	236.7	248.8	264.8	264.8
57.5°	13076.7	7671.9	858.7	377.2	300.9	284.9	232.7	204.6	216.7	232.7	232.7
60°	13839.0	7246.5	1043.2	385.2	280.9	264.8	208.6	180.6	200.6	216.7	220.7
62.5°	13221.1	5966.6	1119.5	365.1	252.8	236.7	204.6	168.5	192.6	204.6	208.6
65°	11885.0	4534.1	874.7	317.0	232.7	204.6	184.6	160.5	180.6	192.6	192.6
66°	11251.0	3952.3	746.3	292.9	224.7	192.6	176.5	160.5	176.5	184.6	188.6
67.5°	10267.9	3117.7	553.7	256.8	208.6	176.5	164.5	152.5	168.5	176.5	176.5
70°	8029.0	1857.8	333.0	200.6	180.6	156.5	148.5	140.4	152.5	156.5	156.5
72.5°	5027.6	882.7	212.7	148.5	152.5	148.5	124.4	132.4	136.4	140.4	140.4
75°	2435.6	349.1	144.4	108.3	124.4	140.4	100.3	116.4	120.4	128.4	124.4
77.5°	678.1	168.5	92.3	80.2	108.3	108.3	76.2	92.3	108.3	136.4	124.4
80°	196.6	108.3	60.2	60.2	76.2	76.2	52.2	64.2	72.2	80.2	84.3
82.5°	136.4	72.2	40.1	44.1	44.1	48.1	32.1	32.1	40.1	40.1	44.1
85°	108.3	32.1	24.1	28.1	20.1	24.1	16.0	16.0	20.1	16.0	16.0
87.5°	44.1	16.0	16.0	16.0	12.0	12.0	8.0	4.0	4.0	4.0	4.0
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)