

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: P841658

Luminaire Tested: **ARCH4-210-727-U-T2R-HSS**

Issue Date: 5/27/2024

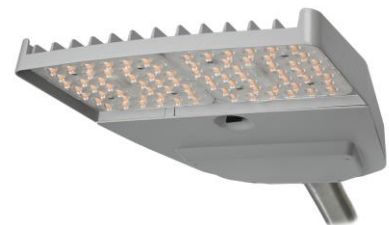
Test Information

Test Method: LM-79-08
Report Number: P841658
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-727-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21744 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 213.1
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



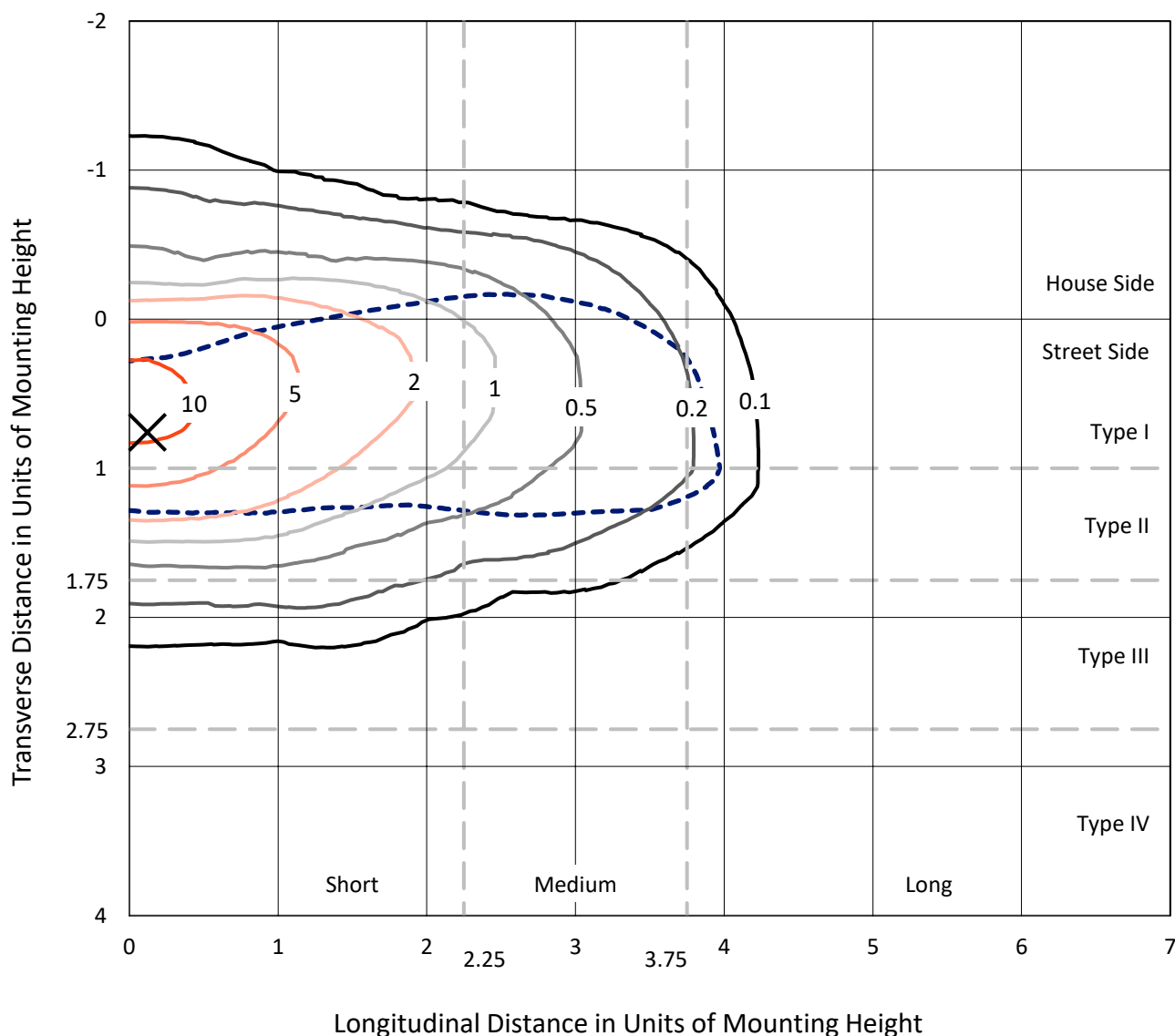
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

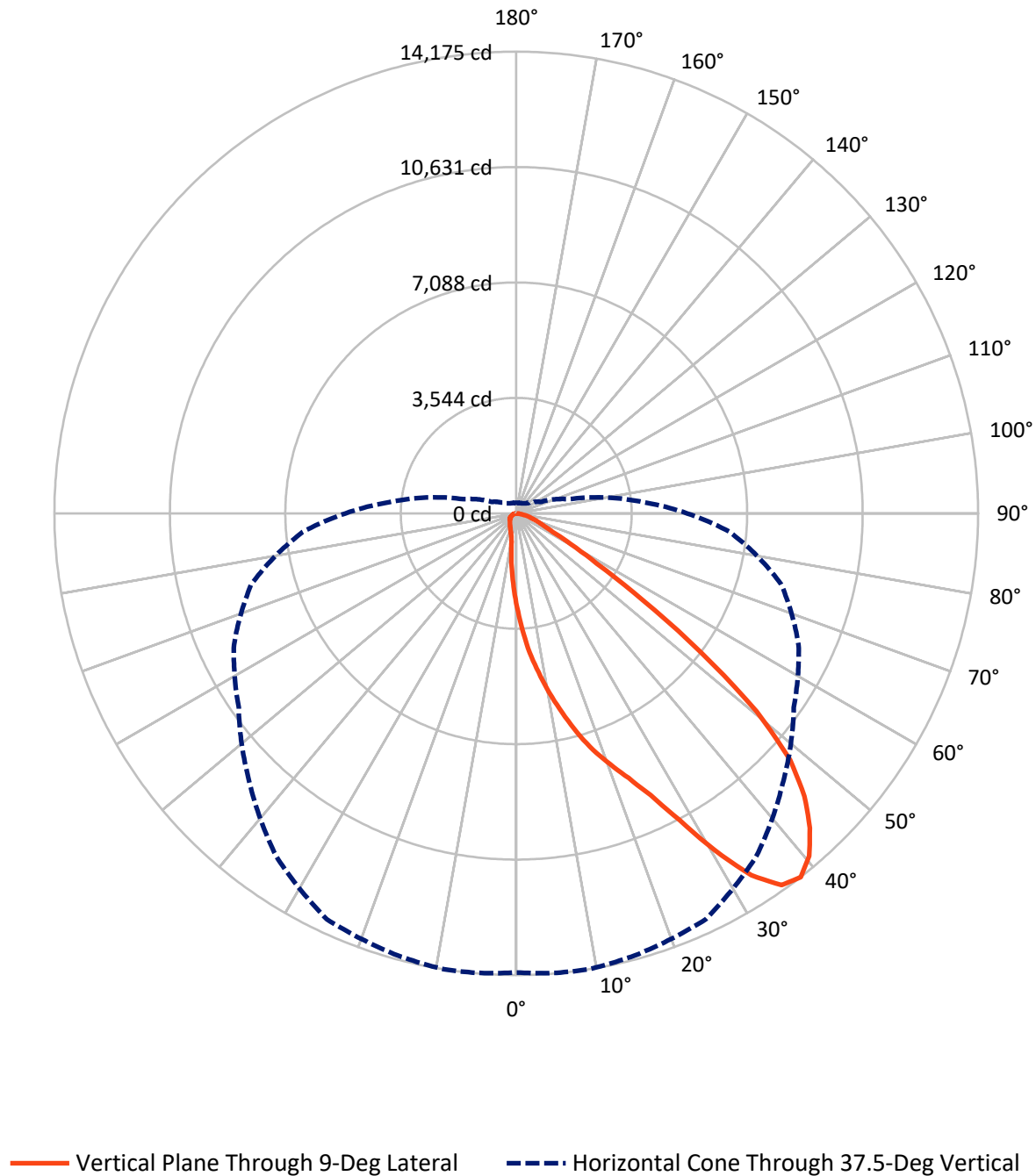


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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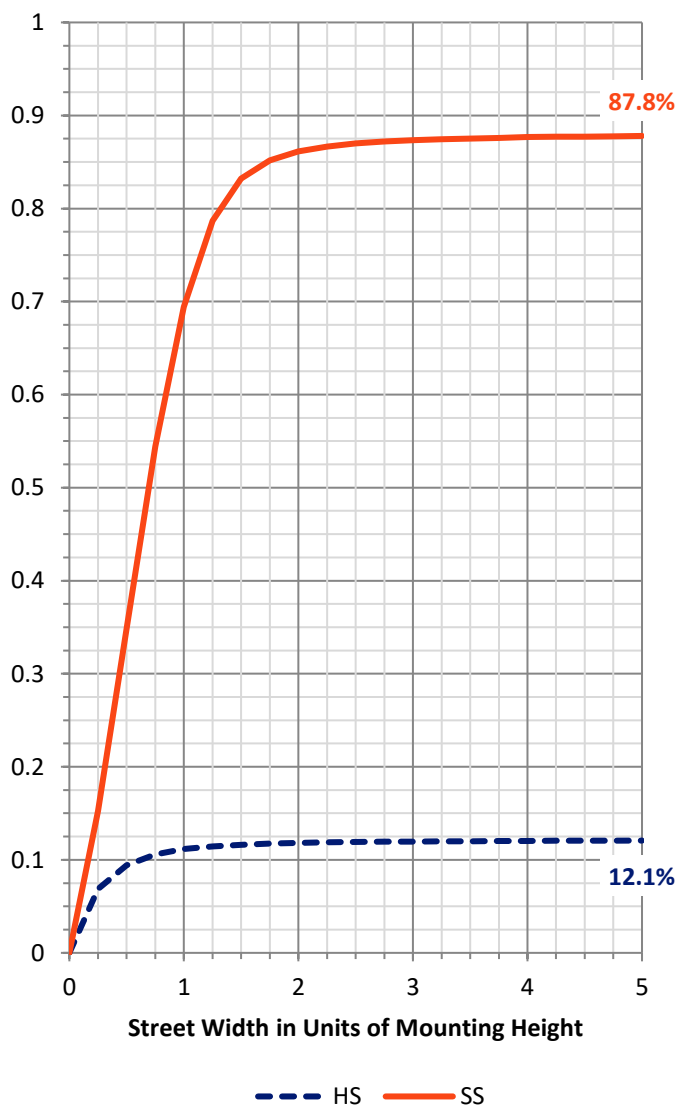
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2644.5	0.0	2644.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19099.5	0.0	19099.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	21744.0	0.0	21744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.9	1.3
10°-20°	1004.2	4.6
20°-30°	2063.3	9.5
30°-40°	3647.1	16.8
40°-50°	4844.8	22.3
50°-60°	4595.0	21.1
60°-70°	3505.6	16.1
70°-80°	1699.5	7.8
80°-90°	95.7	0.4
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°	21744.0	100.0
0°-180°	21744.0	100.0

Coefficient of Utilization



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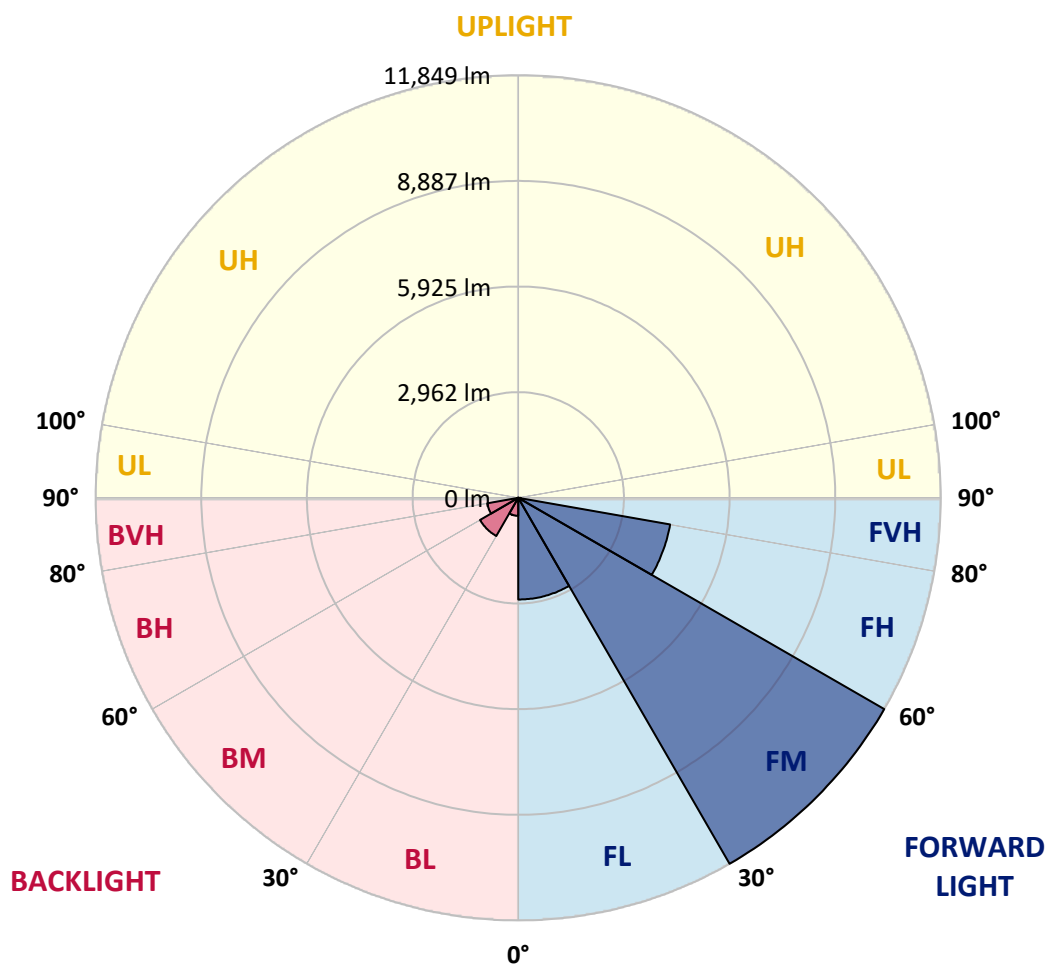
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2851.7	13.1			
FM	(30°-60°)	11849.4	54.5			
FH	(60°-80°)	4322.6	19.9			G2/5000
FVH	(80°-90°)	75.7	0.3			G1/100
BL	(0°-30°)	504.7	2.3	B2/1000		
BM	(30°-60°)	1237.4	5.7	B2/2500		
BH	(60°-80°)	882.4	4.1	B2/1000		G2/1000
BVH	(80°-90°)	19.9	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3
2.5°	3561.6	3499.1	3570.6	3561.6	3499.1	3459.0	3334.0	3293.8	3146.5	3039.4	2945.7
5°	4293.6	4231.1	4293.6	4275.7	4186.5	4088.3	3883.0	3749.1	3485.8	3253.7	3043.9
7.5°	4900.6	4900.6	4927.4	4931.8	4824.7	4673.0	4418.6	4217.7	3847.3	3490.2	3155.5
10°	5556.7	5561.1	5619.2	5579.0	5436.2	5230.9	4909.5	4655.1	4208.8	3740.2	3262.6
12.5°	6257.4	6261.9	6279.7	6261.9	6092.3	5828.9	5440.6	5105.9	4592.6	4025.8	3409.9
15°	6958.1	6962.6	6984.9	6953.6	6766.2	6458.2	6016.4	5605.8	4998.8	4347.1	3588.4
17.5°	7614.2	7623.1	7641.0	7600.8	7404.4	7038.4	6587.7	6092.3	5431.7	4690.8	3789.2
20°	8203.3	8212.3	8225.7	8172.1	7975.7	7609.7	7123.2	6605.5	5873.6	5043.4	4007.9
22.5°	8796.9	8805.9	8828.2	8756.8	8538.1	8118.5	7641.0	7105.4	6342.2	5431.7	4262.3
25°	9555.7	9564.6	9582.5	9479.8	9180.8	8689.8	8185.5	7636.5	6851.0	5869.1	4574.8
27.5°	10667.0	10658.1	10658.1	10470.6	9957.4	9319.1	8734.5	8176.6	7400.0	6337.7	4918.4
30°	12041.7	12019.4	12006.0	11751.6	11019.6	10028.8	9296.8	8680.9	7926.6	6833.1	5288.9
32.5°	13273.5	13273.5	13246.7	12979.0	12202.4	10983.9	9894.9	9171.9	8435.4	7333.0	5672.7
35°	14001.0	14032.3	14018.9	13818.0	13251.2	12010.4	10702.7	9761.0	8971.0	7855.2	6132.4
37.5°	14099.2	14161.7	14175.1	14054.6	13755.5	12849.5	11599.8	10399.2	9560.2	8417.6	6578.7
40°	13702.0	13835.9	13835.9	13818.0	13710.9	13246.7	12354.1	11140.1	10167.1	9002.3	7029.5
42.5°	13090.5	13228.9	13211.0	13278.0	13251.2	13153.0	12778.1	11831.9	10774.1	9604.8	7440.1
45°	12291.6	12434.4	12398.7	12519.2	12572.8	12679.9	12733.5	12313.9	11372.2	10260.9	7899.8
47.5°	11010.7	11251.7	11305.3	11519.5	11742.7	12077.4	12331.8	12488.0	11930.1	10966.1	8399.7
50°	9118.3	9457.5	9564.6	10015.4	10626.9	11318.6	11729.3	12273.8	12322.9	11689.1	8939.8
52.5°	6529.6	6922.4	7087.5	7828.4	9087.1	10292.1	11033.0	11800.7	12474.6	12380.9	9524.4
55°	4222.2	4556.9	4717.6	5413.8	7087.5	8979.9	10211.8	11189.2	12389.8	13014.7	10193.9
57.5°	2602.0	2794.0	2901.1	3499.1	5038.9	7297.3	9136.1	10626.9	12130.9	13563.6	10890.2
60°	1754.0	1865.6	1919.2	2200.4	3423.3	5454.0	7658.8	10037.7	11791.7	13934.1	11524.0
62.5°	1164.9	1200.6	1254.2	1428.2	2258.4	3829.4	5882.5	8984.4	11537.3	13956.4	11992.6
65°	901.6	919.4	941.7	1017.6	1392.5	2677.9	4137.4	7279.5	11158.0	13483.3	12139.9
67.5°	709.6	727.5	754.3	794.4	1008.7	1816.5	2816.3	5333.5	10381.4	12742.4	11898.9
70°	557.9	571.3	589.1	624.8	785.5	1316.6	1861.1	3543.8	8814.8	12037.2	11140.1
72.5°	441.9	455.2	473.1	508.8	638.2	964.0	1276.5	2209.3	6797.4	11175.8	9680.7
75°	348.1	357.1	370.4	406.2	513.3	749.8	865.9	1321.1	4619.4	9600.3	7542.8
77.5°	174.1	214.2	245.5	281.2	374.9	517.7	575.8	732.0	1950.4	4927.4	3597.3
80°	102.7	125.0	133.9	156.2	245.5	312.4	312.4	294.6	615.9	1892.4	1468.4
82.5°	58.0	80.3	84.8	89.3	147.3	178.5	142.8	107.1	125.0	633.8	428.5
85°	17.9	26.8	31.2	35.7	49.1	53.6	49.1	44.6	35.7	62.5	40.2
87.5°	0.0	0.0	0.0	0.0	4.5	8.9	8.9	8.9	13.4	13.4	13.4
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°	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3	2874.3
2.5°	2892.1	2834.1	2722.5	2619.9	2521.7	2450.3	2383.3	2320.9	2276.2	2240.5	2236.1
5°	2932.3	2816.3	2602.0	2401.2	2218.2	2066.5	1937.0	1834.4	1758.5	1704.9	1700.5
7.5°	2985.9	2807.3	2481.5	2182.5	1910.2	1691.5	1504.1	1365.7	1267.5	1227.4	1196.1
10°	3030.5	2798.4	2361.0	1963.8	1606.7	1330.0	1106.9	968.5	897.1	870.3	856.9
12.5°	3106.4	2807.3	2258.4	1763.0	1343.4	1017.6	848.0	772.1	740.9	718.6	714.1
15°	3218.0	2847.5	2160.2	1566.6	1075.6	821.2	723.0	673.9	642.7	638.2	633.8
17.5°	3329.5	2883.2	2070.9	1365.7	892.6	714.1	647.2	607.0	584.7	580.2	580.2
20°	3459.0	2927.9	1972.7	1173.8	763.2	642.7	589.1	557.9	531.1	526.7	526.7
22.5°	3610.7	2990.3	1879.0	1004.2	678.4	589.1	544.5	508.8	486.5	482.0	482.0
25°	3816.0	3084.1	1803.1	879.2	620.4	544.5	504.3	473.1	455.2	446.3	446.3
27.5°	4043.6	3213.5	1749.6	803.4	580.2	508.8	468.6	441.9	424.0	415.1	415.1
30°	4298.1	3356.3	1713.9	772.1	557.9	477.6	441.9	415.1	392.8	388.3	388.3
32.5°	4579.2	3521.5	1691.5	776.6	553.4	455.2	415.1	388.3	370.4	361.5	361.5
35°	4891.7	3704.4	1678.2	803.4	562.4	437.4	392.8	366.0	348.1	339.2	339.2
37.5°	5239.8	3918.7	1678.2	830.2	584.7	432.9	370.4	343.7	330.3	321.3	321.3
40°	5565.6	4146.3	1696.0	861.4	607.0	432.9	352.6	330.3	312.4	303.5	303.5
42.5°	5820.0	4275.7	1709.4	892.6	620.4	428.5	334.7	312.4	299.0	290.1	290.1
45°	6110.1	4414.1	1682.6	906.0	620.4	419.5	321.3	299.0	285.6	276.7	276.7
47.5°	6431.5	4583.7	1678.2	915.0	607.0	401.7	308.0	285.6	276.7	267.8	267.8
50°	6757.3	4771.1	1687.1	910.5	589.1	374.9	290.1	276.7	263.3	254.4	254.4
52.5°	7127.7	4967.5	1704.9	901.6	549.0	343.7	276.7	263.3	249.9	241.0	236.5
55°	7538.3	5181.8	1740.6	883.7	495.4	312.4	263.3	249.9	232.1	223.2	218.7
57.5°	8011.4	5445.1	1780.8	848.0	437.4	285.6	249.9	232.1	205.3	191.9	187.5
60°	8462.2	5744.1	1825.4	763.2	379.4	258.9	236.5	209.8	183.0	174.1	169.6
62.5°	8886.2	6038.7	1847.8	611.5	321.3	236.5	223.2	191.9	165.1	156.2	151.7
65°	9158.5	6360.0	1798.7	415.1	263.3	218.7	205.3	178.5	151.7	138.4	138.4
67.5°	9176.3	6511.8	1629.1	272.3	214.2	196.4	187.5	160.7	133.9	125.0	120.5
70°	8725.5	6284.2	1245.2	214.2	178.5	169.6	169.6	142.8	116.0	107.1	102.7
72.5°	7690.1	5565.6	794.4	174.1	151.7	142.8	142.8	120.5	102.7	89.3	84.8
75°	6069.9	4293.6	424.0	142.8	125.0	120.5	111.6	98.2	84.8	75.9	71.4
77.5°	2789.5	1892.4	196.4	102.7	93.7	93.7	84.8	71.4	66.9	58.0	58.0
80°	1102.4	642.7	98.2	66.9	62.5	62.5	62.5	49.1	49.1	40.2	35.7
82.5°	303.5	133.9	49.1	40.2	40.2	40.2	35.7	31.2	31.2	26.8	26.8
85°	31.2	22.3	22.3	22.3	22.3	17.9	17.9	13.4	8.9	8.9	8.9
87.5°	13.4	13.4	13.4	13.4	13.4	8.9	4.5	0.0	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)