

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: P840881

Luminaire Tested: **ARCH4-100-730-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-100-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 845mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

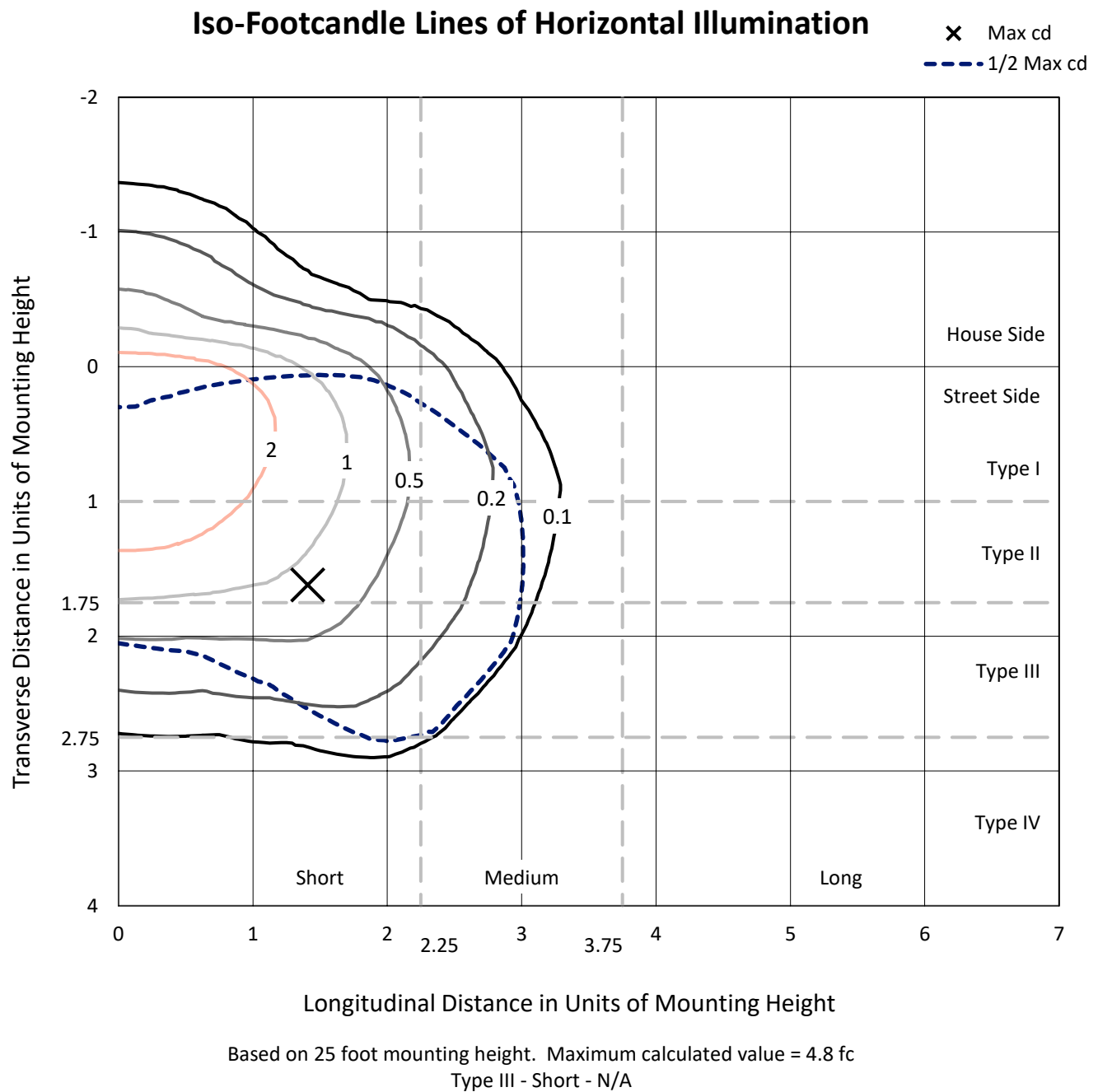
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12143 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.1
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

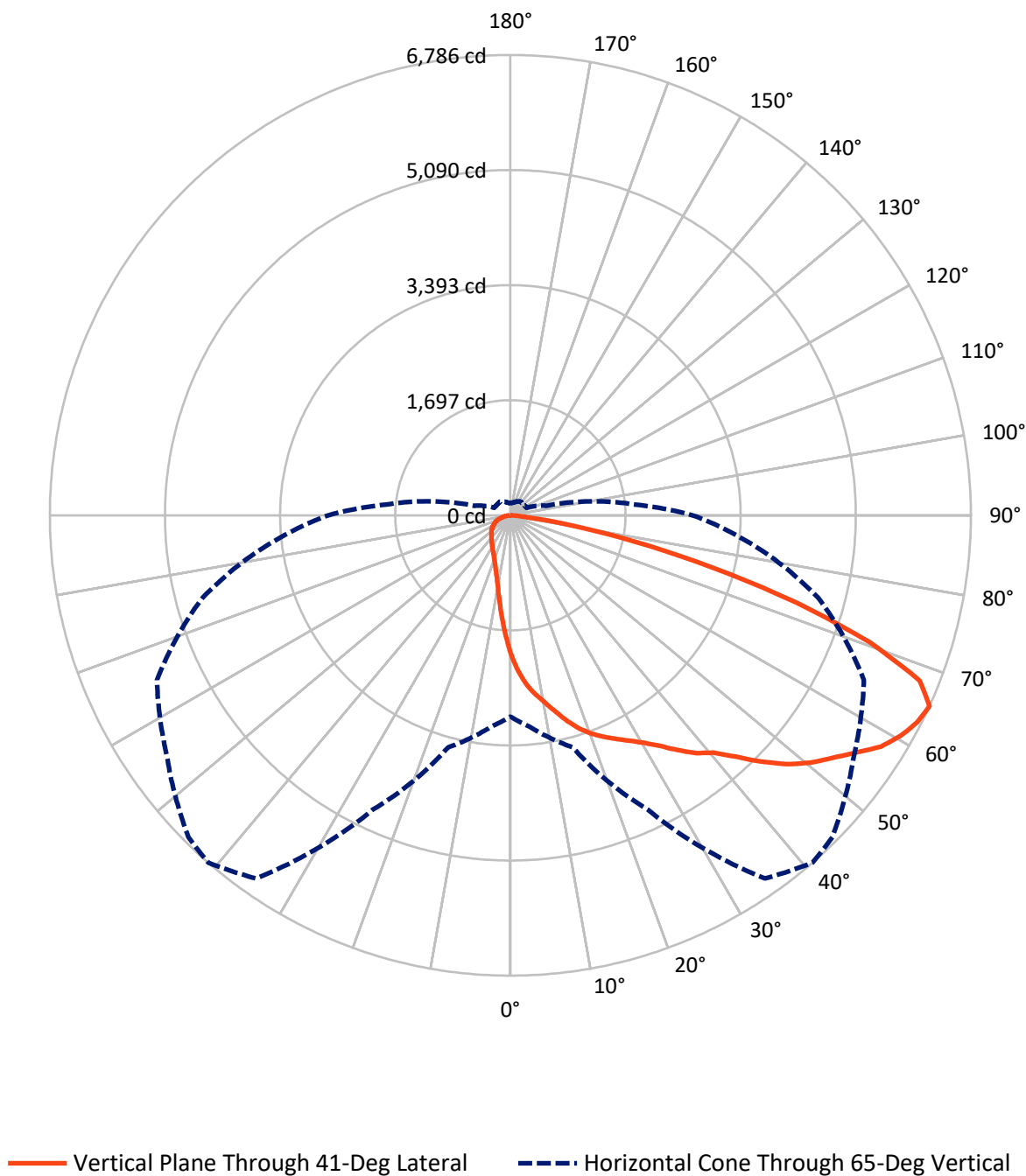


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Luminous Intensity Polar Plot



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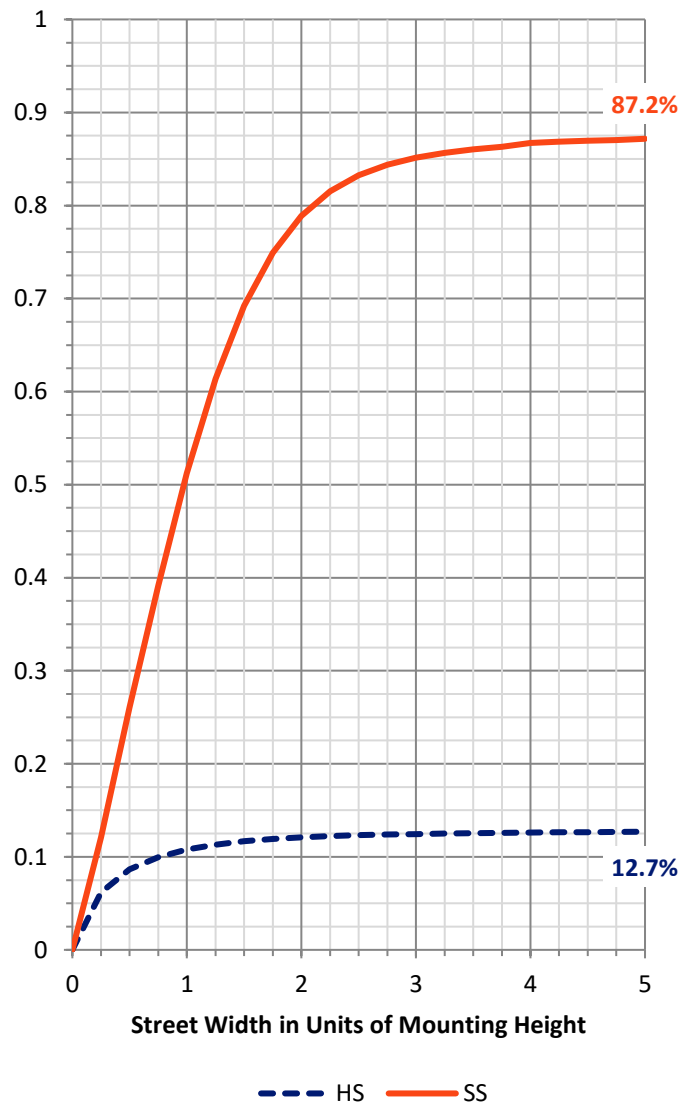
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1559.0	0.0	1559.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10584.0	0.0	10584.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	12143.0	0.0	12143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	1.6
10°-20°	578.1	4.8
20°-30°	994.5	8.2
30°-40°	1508.3	12.4
40°-50°	2209.7	18.2
50°-60°	2790.4	23.0
60°-70°	2616.5	21.5
70°-80°	1166.2	9.6
80°-90°	86.4	0.7
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°	12143.0	100.0
0°-180°	12143.0	100.0

Coefficient of Utilization



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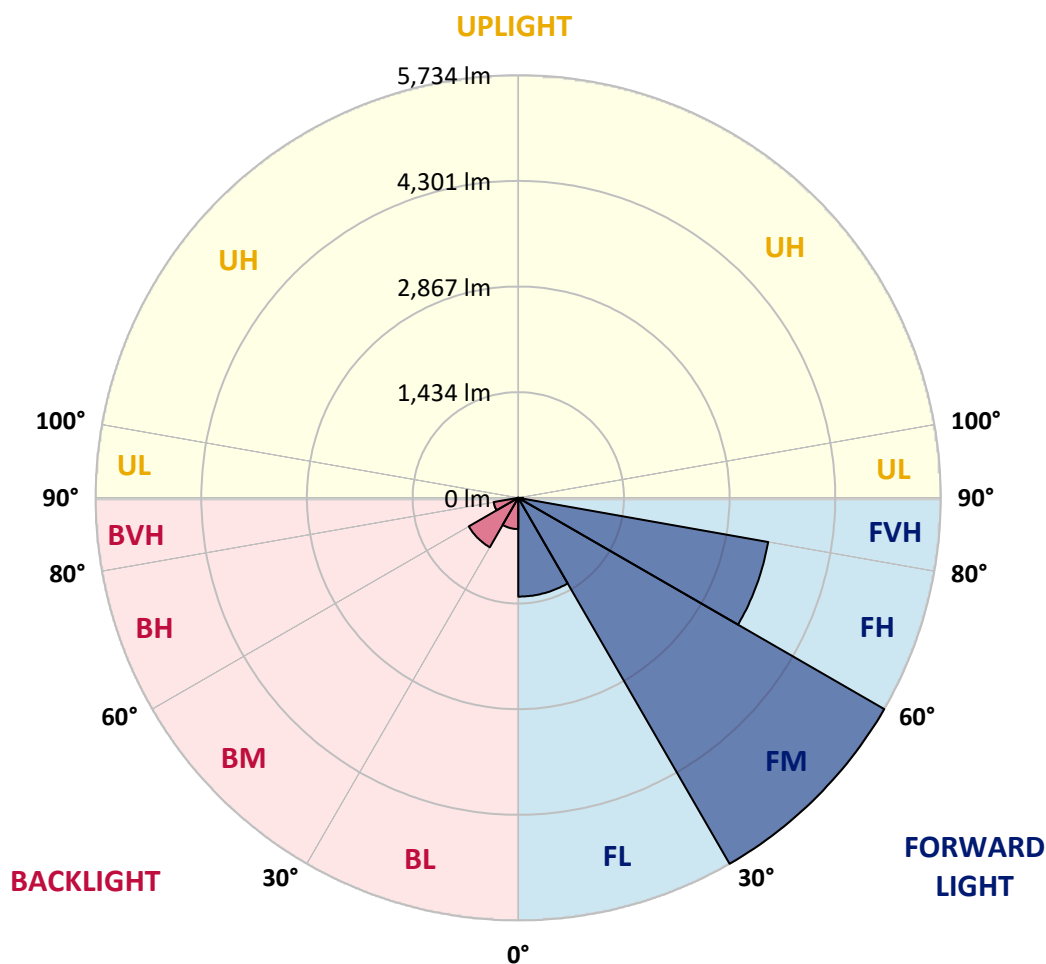
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1341.0	11.0			
FM	(30°-60°)	5734.4	47.2			
FH	(60°-80°)	3444.1	28.4			G2/5000
FVH	(80°-90°)	64.5	0.5			G1/100
BL	(0°-30°)	424.3	3.5	B1/500		
BM	(30°-60°)	774.1	6.4	B1/1000		
BH	(60°-80°)	338.7	2.8	B1/500		G1/500
BVH	(80°-90°)	21.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1
2.5°	2386.6	2379.0	2373.8	2345.7	2345.7	2307.3	2309.8	2274.0	2230.4	2161.3	2087.0
5°	2612.0	2601.7	2588.9	2560.8	2550.5	2512.1	2507.0	2455.8	2381.5	2261.2	2128.0
7.5°	2809.2	2798.9	2781.0	2740.0	2711.9	2665.8	2653.0	2586.4	2504.4	2355.9	2169.0
10°	2988.4	2980.7	2957.7	2906.5	2868.1	2811.7	2788.7	2699.1	2596.6	2432.7	2202.3
12.5°	3170.2	3160.0	3129.3	3085.7	3039.6	2973.1	2944.9	2829.7	2699.1	2517.2	2250.9
15°	3339.2	3323.9	3300.8	3254.7	3213.8	3149.7	3119.0	2983.3	2824.5	2612.0	2314.9
17.5°	3449.4	3436.6	3416.1	3390.5	3357.2	3308.5	3277.8	3144.6	2950.0	2704.2	2381.5
20°	3515.9	3510.8	3503.1	3487.8	3472.4	3439.1	3416.1	3290.6	3085.7	2793.8	2445.5
22.5°	3567.2	3562.0	3559.5	3559.5	3562.0	3549.2	3533.9	3426.3	3216.3	2888.6	2504.4
25°	3646.5	3644.0	3638.9	3633.7	3651.7	3654.2	3649.1	3574.8	3380.2	3014.0	2578.7
27.5°	3756.7	3749.0	3738.7	3733.6	3751.5	3764.3	3774.6	3723.4	3554.4	3142.1	2663.2
30°	3925.7	3902.6	3877.0	3859.1	3871.9	3892.4	3915.4	3884.7	3733.6	3300.8	2750.3
32.5°	4125.4	4097.2	4038.3	4005.0	4038.3	4053.7	4071.6	4056.3	3920.5	3472.4	2837.3
35°	4368.7	4335.4	4273.9	4225.3	4284.2	4250.9	4243.2	4227.8	4097.2	3641.4	2934.6
37.5°	4773.3	4724.6	4627.3	4519.8	4519.8	4448.1	4419.9	4373.8	4256.0	3792.5	3029.4
40°	5241.9	5177.9	5052.4	4893.6	4747.7	4599.1	4581.2	4547.9	4442.9	3966.6	3136.9
42.5°	5756.6	5633.7	5459.6	5267.5	5031.9	4862.9	4821.9	4727.2	4624.8	4143.3	3244.5
45°	6327.7	6071.6	5818.1	5720.8	5331.5	5177.9	5101.1	4929.5	4814.3	4327.7	3357.2
47.5°	6419.9	6220.1	6051.1	6035.7	5610.7	5482.6	5395.5	5149.7	5019.1	4524.9	3475.0
50°	6368.6	6248.3	6266.2	6204.8	5815.5	5731.0	5664.4	5385.3	5221.4	4714.4	3582.5
52.5°	6153.5	6220.1	6322.5	6209.9	6010.1	5941.0	5907.7	5638.8	5410.9	4888.5	3679.8
55°	5897.5	5943.6	6163.8	6302.1	6235.5	6174.0	6143.3	5933.3	5597.8	5034.5	3769.5
57.5°	5523.6	5503.1	5746.4	6286.7	6471.1	6435.2	6401.9	6222.7	5772.0	5139.5	3825.8
60°	4962.8	4919.2	5226.5	5979.4	6547.9	6604.2	6588.9	6414.7	5905.1	5136.9	3802.7
62.5°	3992.2	4099.8	4524.9	5477.5	6581.2	6724.6	6696.4	6430.1	5948.7	4988.4	3656.8
65°	2967.9	3121.6	3539.0	4786.1	6535.1	6786.0	6709.2	6179.1	5746.4	4693.9	3336.7
67.5°	2138.2	2274.0	2578.7	3938.5	6092.1	6504.4	6414.7	5769.4	5280.3	4276.5	2893.7
70°	1462.2	1559.5	1766.9	2868.1	5200.9	5623.5	5567.1	5157.4	4545.4	3779.7	2350.8
72.5°	1032.0	1073.0	1206.1	1892.4	3951.3	4412.2	4345.6	4243.2	3651.7	3142.1	1828.4
75°	773.4	799.0	870.7	1224.0	2665.8	3057.6	2996.1	3055.0	2727.2	2379.0	1331.6
77.5°	291.9	317.5	494.2	781.0	1577.4	1877.0	1815.6	1851.4	1516.0	1201.0	663.2
80°	79.4	84.5	163.9	371.3	717.0	934.7	850.2	729.8	563.4	553.1	350.8
82.5°	33.3	38.4	74.3	199.7	256.1	256.1	215.1	266.3	215.1	258.6	169.0
85°	12.8	15.4	17.9	51.2	33.3	35.9	38.4	51.2	43.5	53.8	38.4
87.5°	0.0	0.0	0.0	2.6	2.6	5.1	2.6	5.1	7.7	7.7	7.7
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°	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1	2069.1
2.5°	2056.3	2028.1	1987.2	1920.6	1851.4	1813.0	1764.4	1756.7	1705.5	1700.4	1679.9
5°	2069.1	2010.2	1905.2	1777.2	1651.7	1554.4	1482.7	1444.3	1370.0	1370.0	1349.5
7.5°	2079.3	1987.2	1818.1	1628.7	1457.1	1326.5	1229.2	1188.2	1121.6	1116.5	1101.1
10°	2081.9	1959.0	1723.4	1477.6	1267.6	1134.4	1039.7	993.6	934.7	929.6	919.3
12.5°	2102.4	1943.6	1638.9	1347.0	1131.9	988.5	896.3	857.9	811.8	806.6	796.4
15°	2135.7	1943.6	1567.2	1236.9	1011.5	878.3	799.0	763.1	729.8	724.7	719.6
17.5°	2169.0	1938.5	1495.5	1134.4	911.6	791.3	722.1	694.0	668.4	665.8	660.7
20°	2199.7	1935.9	1423.8	1047.4	834.8	719.6	665.8	640.2	619.7	619.7	617.1
22.5°	2230.4	1930.8	1354.6	965.4	768.2	665.8	619.7	591.5	576.2	576.2	573.6
25°	2276.5	1930.8	1290.6	896.3	714.5	624.8	578.7	558.2	545.4	542.9	542.9
27.5°	2330.3	1946.2	1234.3	834.8	668.4	583.9	548.0	527.5	512.2	507.0	509.6
30°	2389.2	1959.0	1183.1	781.0	624.8	553.1	514.7	494.2	478.9	473.7	476.3
32.5°	2448.1	1974.4	1137.0	732.4	581.3	525.0	486.5	463.5	448.1	445.6	445.6
35°	2512.1	1989.7	1090.9	691.4	545.4	496.8	460.9	435.3	425.1	420.0	422.5
37.5°	2576.1	2015.3	1047.4	653.0	519.8	471.2	437.9	412.3	404.6	402.0	402.0
40°	2653.0	2053.7	1029.4	627.4	496.8	448.1	420.0	394.4	386.7	386.7	386.7
42.5°	2717.0	2084.5	1014.1	599.2	478.9	427.6	402.0	381.6	376.4	373.9	376.4
45°	2781.0	2112.6	993.6	573.6	455.8	407.2	386.7	366.2	361.1	361.1	361.1
47.5°	2845.0	2128.0	965.4	548.0	435.3	389.2	371.3	353.4	348.3	348.3	348.3
50°	2896.2	2140.8	924.4	519.8	412.3	373.9	355.9	338.0	332.9	332.9	332.9
52.5°	2947.4	2143.4	880.9	486.5	389.2	355.9	340.6	322.7	317.5	315.0	315.0
55°	2993.5	2140.8	829.7	448.1	363.6	335.5	322.7	307.3	297.0	286.8	291.9
57.5°	3026.8	2138.2	770.8	409.7	338.0	315.0	309.9	289.4	268.9	243.3	248.4
60°	3014.0	2110.1	706.8	361.1	309.9	294.5	294.5	266.3	230.5	217.7	220.2
62.5°	2932.1	2030.7	640.2	309.9	281.7	274.0	271.4	240.7	212.5	199.7	202.3
65°	2686.2	1831.0	542.9	263.8	253.5	251.0	251.0	222.8	197.2	181.8	184.4
67.5°	2312.4	1536.5	443.0	222.8	225.3	230.5	230.5	204.9	179.3	163.9	166.5
70°	1854.0	1201.0	353.4	192.1	194.6	202.3	207.4	184.4	161.3	146.0	146.0
72.5°	1395.6	911.6	284.2	161.3	174.1	174.1	181.8	163.9	140.8	125.5	128.0
75°	1011.5	653.0	225.3	135.7	151.1	148.5	148.5	138.3	120.4	110.1	110.1
77.5°	478.9	343.1	179.3	97.3	117.8	115.2	117.8	110.1	102.4	92.2	94.7
80°	235.6	169.0	115.2	69.1	81.9	84.5	92.2	87.1	84.5	76.8	76.8
82.5°	112.7	66.6	53.8	48.7	56.3	58.9	64.0	64.0	66.6	61.5	61.5
85°	30.7	17.9	23.0	30.7	35.9	38.4	43.5	46.1	46.1	43.5	46.1
87.5°	7.7	7.7	10.2	15.4	17.9	20.5	23.0	23.0	10.2	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)