

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: P835984

Luminaire Tested: **ARCH3-120-740-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835984
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: ARCH3-120-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 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: 13244 lumens
Efficiency: N/A
Efficacy: 107.9 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



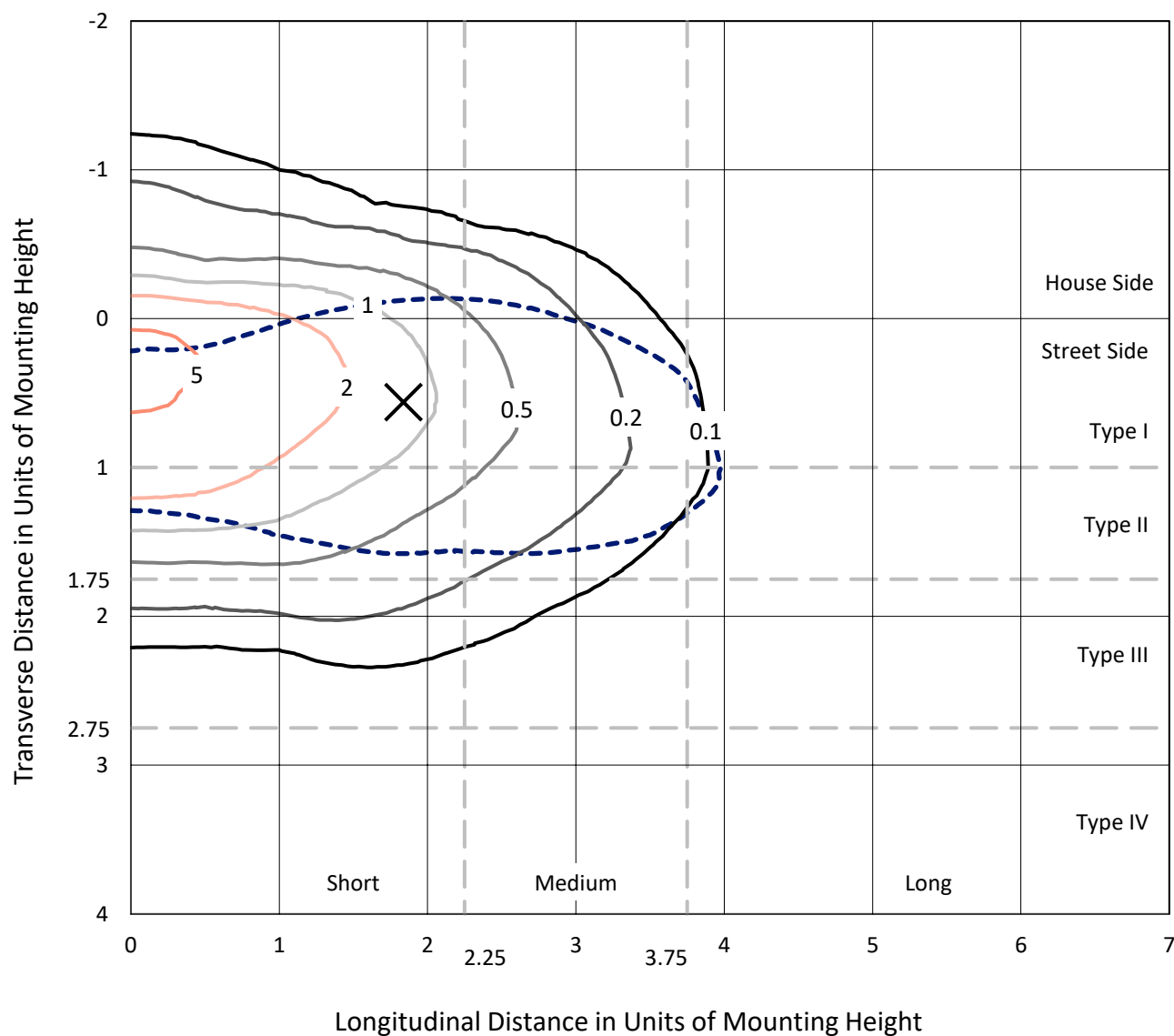
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

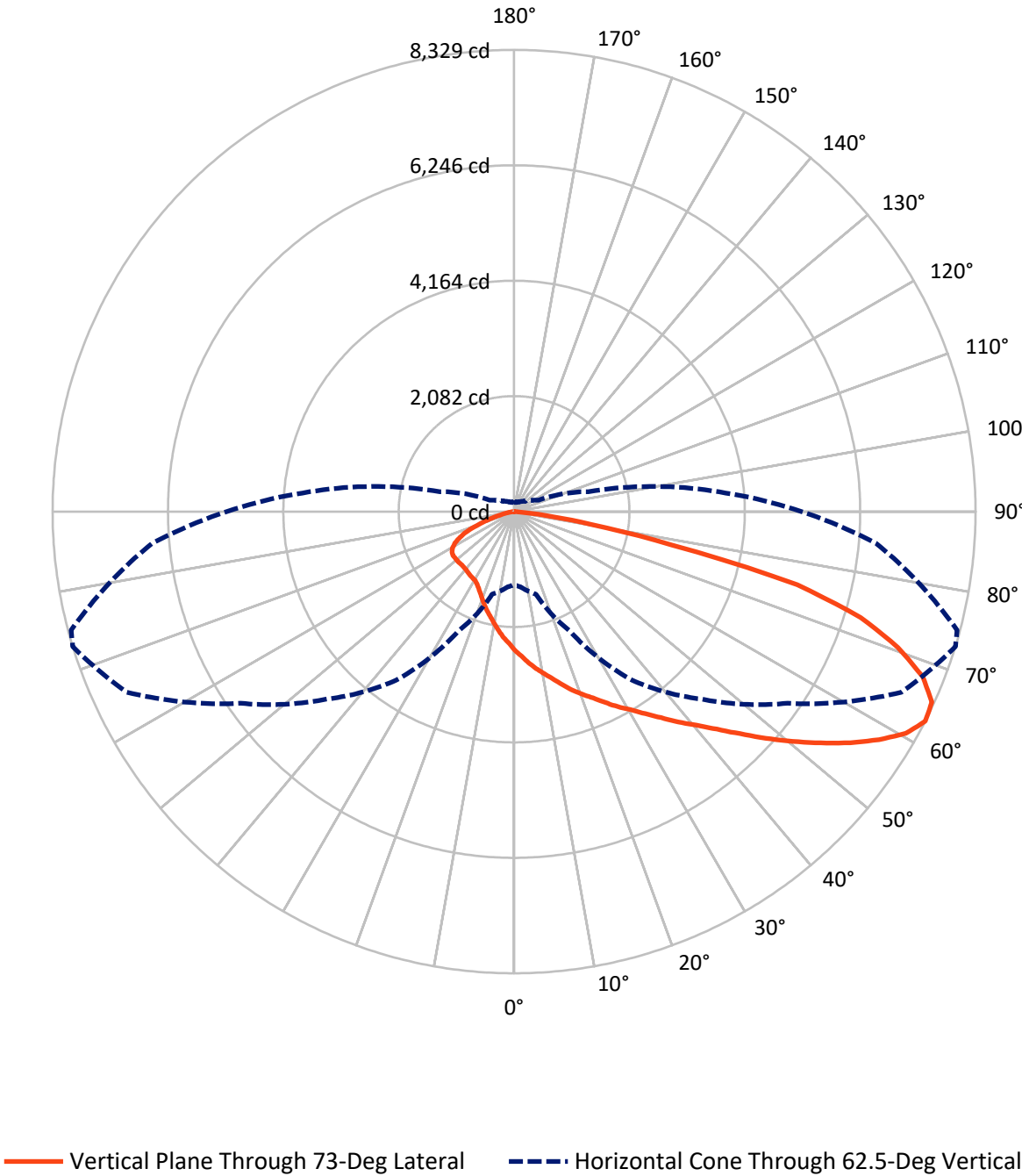


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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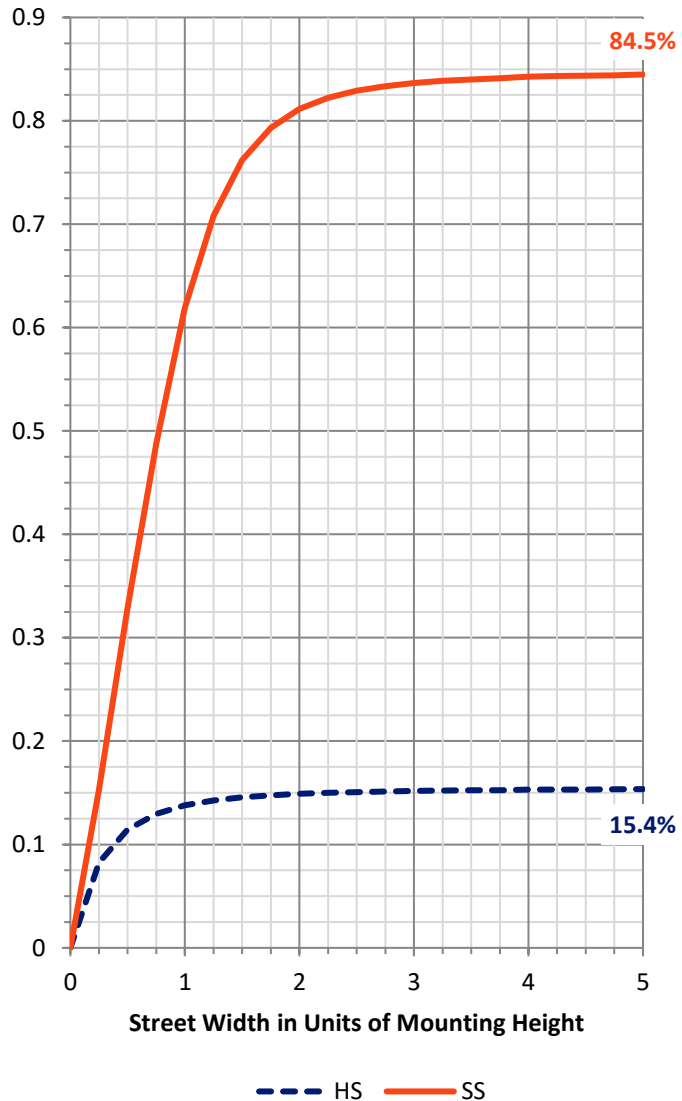
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2053.0	0.0	2053.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11191.0	0.0	11191.0
	% Fixture	84.5	0.0	84.5
Total	Lumens	13244.0	0.0	13244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	1.8
10°-20°	731.1	5.5
20°-30°	1216.8	9.2
30°-40°	1836.0	13.9
40°-50°	2566.3	19.4
50°-60°	2834.7	21.4
60°-70°	2469.3	18.6
70°-80°	1247.4	9.4
80°-90°	100.1	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°	13244.0	100.0
0°-180°	13244.0	100.0

Coefficient of Utilization



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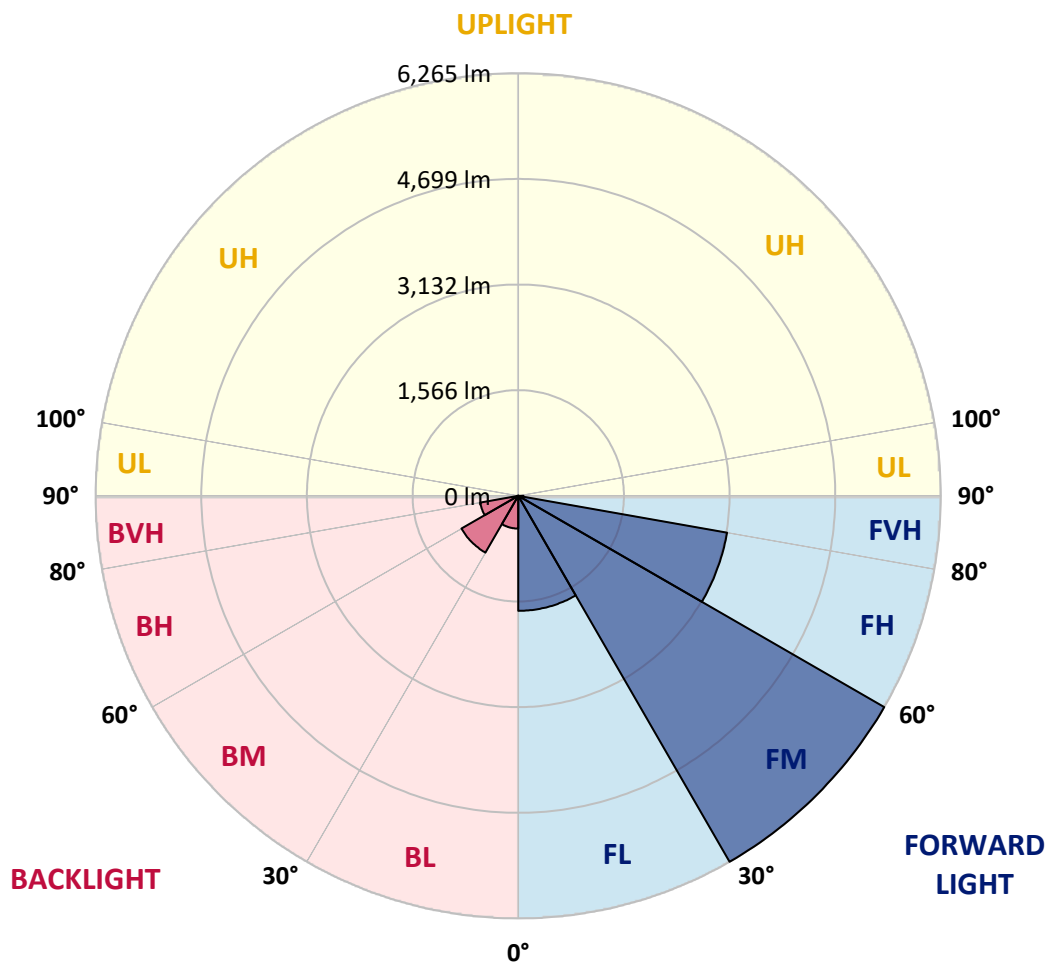
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1704.9	12.9			
FM	(30°-60°)	6264.9	47.3			
FH	(60°-80°)	3143.7	23.7			G2/5000
FVH	(80°-90°)	77.5	0.6			G1/100
BL	(0°-30°)	485.3	3.7	B1/500		
BM	(30°-60°)	972.1	7.3	B1/1000		
BH	(60°-80°)	573.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	22.6	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°	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8
2.5°	2854.1	2885.8	2868.5	2880.1	2822.3	2784.8	2741.5	2657.8	2611.7	2605.9	2551.1
5°	3272.5	3307.2	3278.3	3269.6	3168.6	3082.1	2983.9	2836.8	2738.6	2721.3	2600.1
7.5°	3691.0	3722.7	3688.1	3662.1	3526.5	3373.5	3229.2	3012.8	2859.8	2831.0	2640.5
10°	3985.3	4014.2	3988.2	3962.2	3820.8	3665.0	3460.1	3177.3	2969.5	2923.3	2666.5
12.5°	4207.5	4224.8	4213.3	4190.2	4057.5	3890.1	3693.9	3362.0	3093.6	3035.9	2706.9
15°	4389.3	4418.2	4403.8	4386.4	4259.5	4092.1	3904.5	3555.3	3237.9	3165.7	2767.5
17.5°	4510.5	4530.7	4533.6	4533.6	4421.1	4256.6	4074.8	3731.4	3382.2	3289.8	2825.2
20°	4565.4	4588.5	4602.9	4626.0	4533.6	4392.2	4207.5	3881.4	3517.8	3413.9	2880.1
22.5°	4591.3	4611.5	4649.1	4701.0	4626.0	4507.7	4337.4	4020.0	3653.5	3543.8	2943.5
25°	4611.5	4637.5	4692.3	4790.5	4738.5	4637.5	4490.3	4178.7	3815.1	3702.5	3035.9
27.5°	4666.4	4698.1	4750.1	4868.4	4804.9	4755.8	4651.9	4348.9	3985.3	3869.9	3148.4
30°	4856.8	4882.8	4879.9	4955.0	4877.0	4862.6	4790.5	4513.4	4149.8	4034.4	3281.2
32.5°	5203.1	5229.1	5165.6	5136.8	4966.5	4969.4	4940.5	4689.5	4346.0	4227.7	3434.1
35°	5575.4	5604.3	5520.6	5471.5	5185.8	5102.1	5116.6	4908.8	4565.4	4447.1	3624.6
37.5°	5907.3	5941.9	5869.8	5797.6	5509.0	5315.7	5312.8	5154.1	4816.4	4695.2	3835.3
40°	6089.1	6129.5	6172.8	6132.4	5829.4	5615.8	5523.5	5405.1	5064.6	4940.5	4063.2
42.5°	6175.7	6288.2	6366.1	6340.2	6092.0	5875.5	5765.9	5667.8	5367.6	5246.4	4334.5
45°	5933.3	5936.1	6100.6	6242.0	6195.9	6051.6	6031.4	5962.1	5713.9	5598.5	4640.4
47.5°	5630.2	5607.2	5722.6	5973.7	6103.5	6141.0	6259.3	6288.2	6109.3	5993.9	4952.1
50°	4903.0	4917.4	5292.6	5653.3	5907.3	6149.7	6421.0	6623.0	6516.2	6406.5	5281.1
52.5°	3988.2	4022.8	4452.8	5246.4	5647.6	6063.1	6516.2	6957.7	6931.7	6827.9	5610.0
55°	3197.5	3252.3	3708.3	4568.3	5315.7	5869.8	6556.6	7263.6	7361.7	7266.5	5933.3
57.5°	2444.3	2502.0	2885.8	3768.9	4891.5	5555.2	6527.7	7532.0	7762.9	7702.3	6230.5
60°	1841.2	1898.9	2144.2	3056.1	4360.5	5203.1	6383.4	7708.0	8123.6	8060.1	6446.9
62.5°	1318.8	1365.0	1546.8	2377.9	3714.1	4784.7	6028.5	7710.9	8328.5	8276.5	6550.8
65°	949.4	949.4	1096.6	1696.9	3108.0	4282.6	5491.7	7356.0	8285.2	8270.8	6478.7
67.5°	683.9	689.7	808.0	1186.1	2478.9	3673.7	4796.2	6724.0	7950.4	8022.6	6218.9
70°	484.8	499.2	554.1	828.2	1872.9	2900.3	4051.7	5895.7	7347.3	7474.3	5716.8
72.5°	375.2	383.8	421.3	577.2	1367.9	2155.7	3229.2	4972.3	6542.2	6686.4	5032.9
75°	288.6	297.2	326.1	424.2	981.2	1512.2	2294.2	3858.3	5275.3	5532.1	4043.0
77.5°	210.7	222.2	242.4	308.8	571.4	961.0	1391.0	2170.1	2911.8	3033.0	2118.2
80°	98.1	112.5	141.4	199.1	308.8	453.1	493.5	836.9	1399.6	1463.1	1148.6
82.5°	54.8	69.3	80.8	121.2	155.8	161.6	167.4	210.7	528.1	582.9	481.9
85°	26.0	34.6	37.5	51.9	51.9	46.2	54.8	40.4	86.6	103.9	101.0
87.5°	0.0	2.9	5.8	14.4	11.5	8.7	8.7	8.7	8.7	11.5	8.7
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°	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8	2507.8
2.5°	2525.1	2487.6	2401.0	2326.0	2276.9	2233.6	2175.9	2149.9	2103.8	2112.4	2086.4
5°	2539.5	2470.3	2317.3	2175.9	2072.0	1979.7	1878.7	1821.0	1757.5	1751.7	1731.5
7.5°	2548.2	2441.4	2222.1	2023.0	1864.2	1722.8	1587.2	1512.2	1434.3	1416.9	1399.6
10°	2539.5	2398.1	2124.0	1864.2	1653.6	1477.5	1324.6	1229.4	1148.6	1128.4	1111.0
12.5°	2548.2	2375.0	2031.6	1717.1	1466.0	1266.9	1093.7	995.6	920.6	900.4	888.8
15°	2568.4	2360.6	1953.7	1584.3	1298.6	1076.4	906.1	822.5	761.9	741.7	735.9
17.5°	2585.7	2346.2	1870.0	1454.5	1131.2	909.0	761.9	692.6	640.7	620.5	614.7
20°	2608.8	2326.0	1786.3	1330.4	984.1	776.3	646.4	585.8	545.4	531.0	528.1
22.5°	2629.0	2311.5	1708.4	1206.3	848.4	669.5	559.8	510.8	481.9	467.5	467.5
25°	2680.9	2317.3	1642.0	1090.8	747.4	585.8	493.5	456.0	432.9	424.2	424.2
27.5°	2741.5	2340.4	1590.1	992.7	660.9	522.3	447.3	415.6	404.0	392.5	395.4
30°	2828.1	2386.6	1555.5	911.9	597.4	473.3	409.8	386.7	375.2	372.3	372.3
32.5°	2937.8	2461.6	1552.6	860.0	551.2	435.8	383.8	363.6	357.8	355.0	355.0
35°	3067.6	2528.0	1535.3	836.9	522.3	409.8	363.6	349.2	346.3	346.3	346.3
37.5°	3223.5	2637.6	1523.7	805.1	507.9	395.4	349.2	337.6	337.6	337.6	337.6
40°	3385.1	2727.1	1506.4	776.3	502.1	386.7	340.5	326.1	326.1	326.1	326.1
42.5°	3578.4	2857.0	1500.6	761.9	493.5	380.9	329.0	311.7	314.6	314.6	317.4
45°	3812.2	3004.1	1497.7	747.4	490.6	375.2	317.4	297.2	300.1	297.2	297.2
47.5°	4048.8	3174.4	1506.4	738.8	487.7	369.4	308.8	282.8	282.8	279.9	279.9
50°	4297.0	3330.2	1512.2	730.1	481.9	357.8	294.4	271.3	265.5	259.7	262.6
52.5°	4530.7	3474.5	1515.1	715.7	464.6	340.5	282.8	256.8	248.2	239.5	242.4
55°	4764.5	3613.0	1520.8	698.4	441.5	323.2	268.4	242.4	230.9	219.3	219.3
57.5°	4975.2	3734.3	1506.4	655.1	415.6	305.9	254.0	225.1	207.8	196.2	196.2
60°	5119.4	3820.8	1463.1	591.6	380.9	285.7	239.5	207.8	187.6	178.9	178.9
62.5°	5188.7	3835.3	1385.2	487.7	337.6	265.5	222.2	190.5	173.1	167.4	167.4
65°	5122.3	3771.8	1264.0	366.5	291.5	242.4	204.9	176.0	158.7	144.3	144.3
67.5°	4891.5	3592.8	1096.6	277.0	248.2	219.3	187.6	161.6	141.4	129.9	129.9
70°	4426.9	3220.6	848.4	222.2	210.7	190.5	170.3	144.3	127.0	112.5	112.5
72.5°	3817.9	2730.0	597.4	178.9	178.9	161.6	144.3	127.0	109.7	98.1	98.1
75°	2929.1	2020.1	401.1	144.3	147.2	135.6	118.3	103.9	92.3	83.7	83.7
77.5°	1598.7	998.5	245.3	106.8	109.7	103.9	92.3	83.7	77.9	69.3	69.3
80°	776.3	438.6	141.4	75.0	77.9	75.0	69.3	60.6	60.6	54.8	54.8
82.5°	326.1	164.5	75.0	51.9	51.9	46.2	43.3	43.3	43.3	40.4	40.4
85°	80.8	31.7	31.7	28.9	28.9	28.9	26.0	26.0	26.0	20.2	23.1
87.5°	11.5	11.5	11.5	11.5	11.5	11.5	8.7	2.9	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)