

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: P323989

Luminaire Tested: **GAN-SA5A-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15022 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

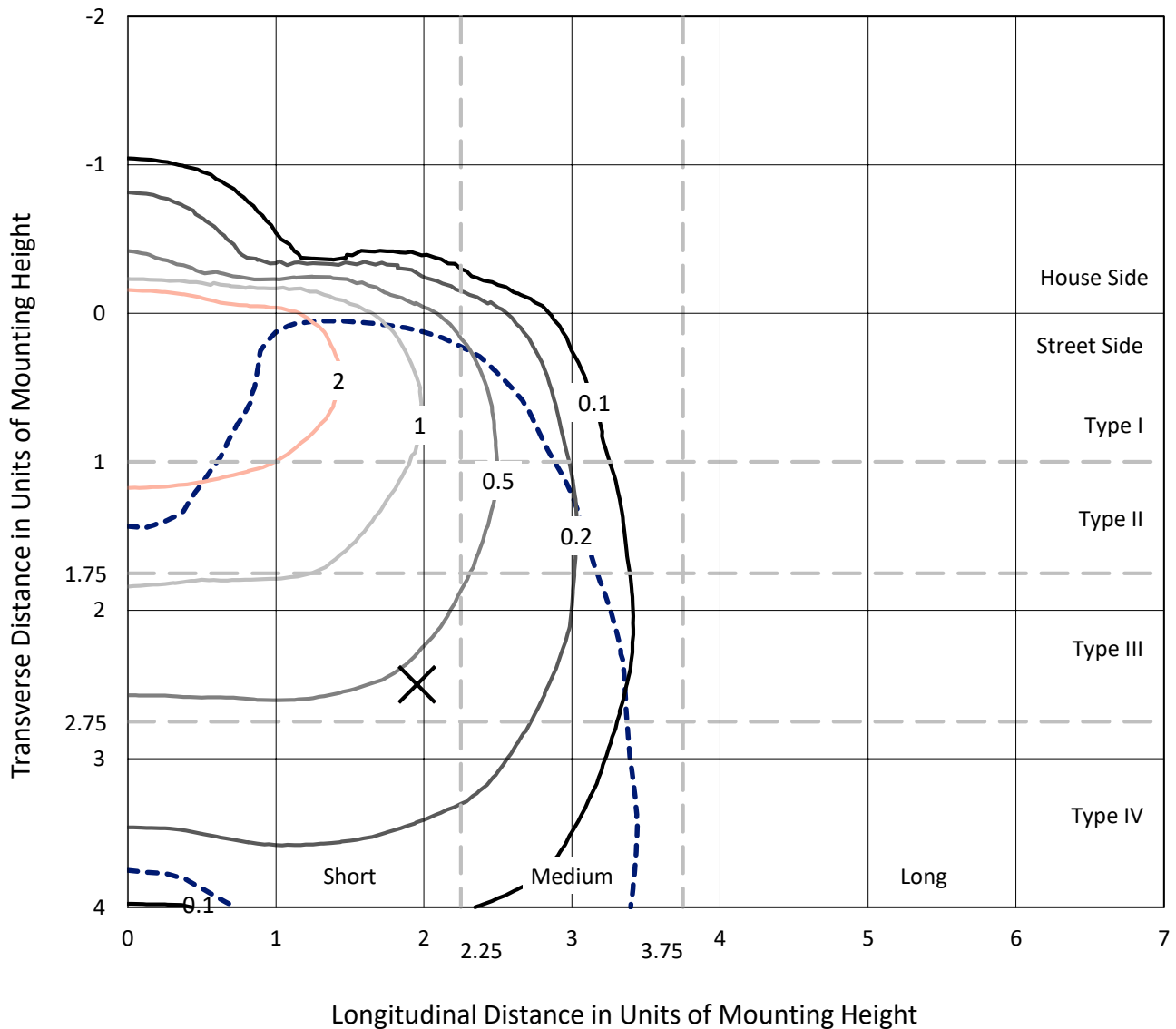
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

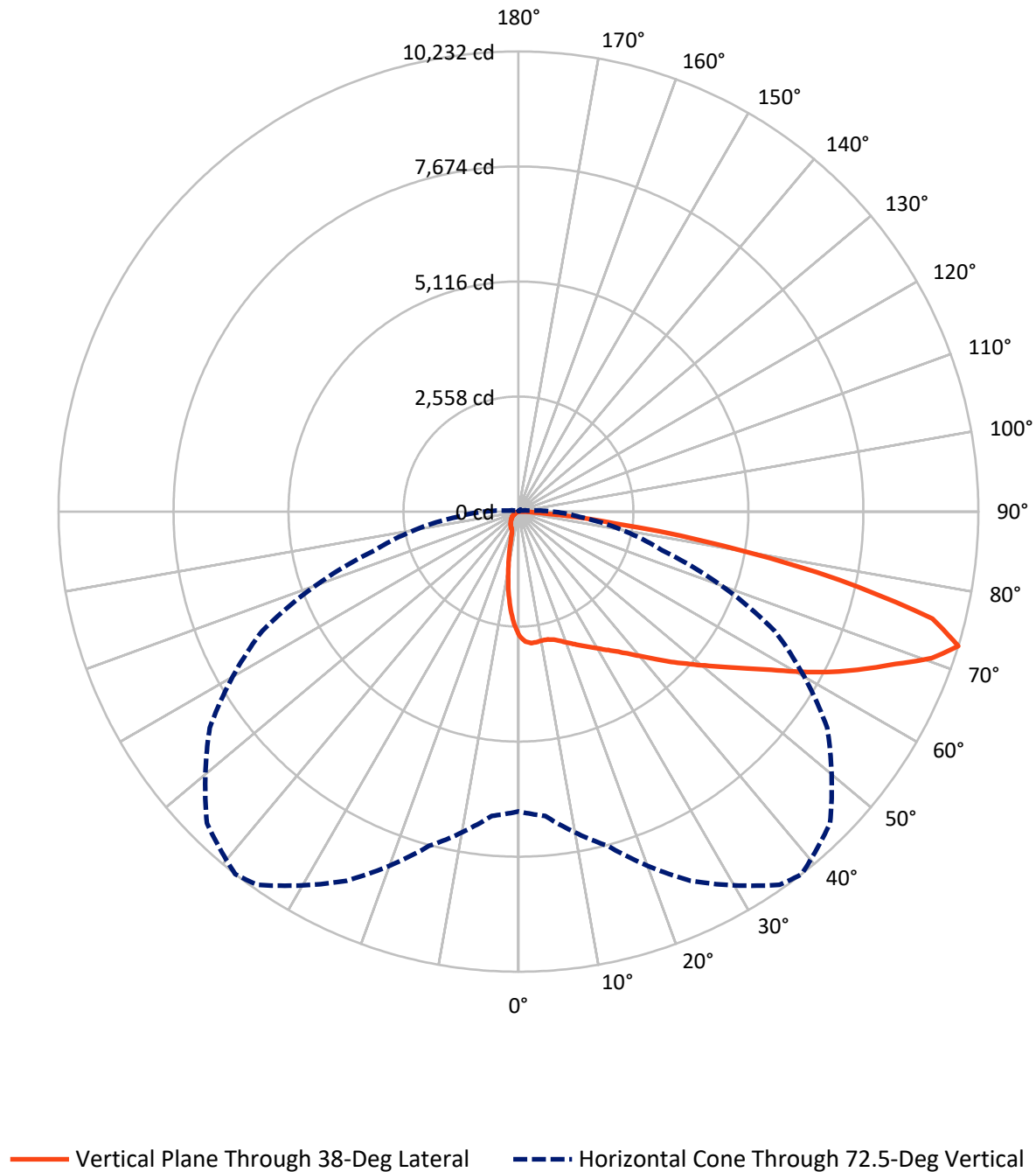
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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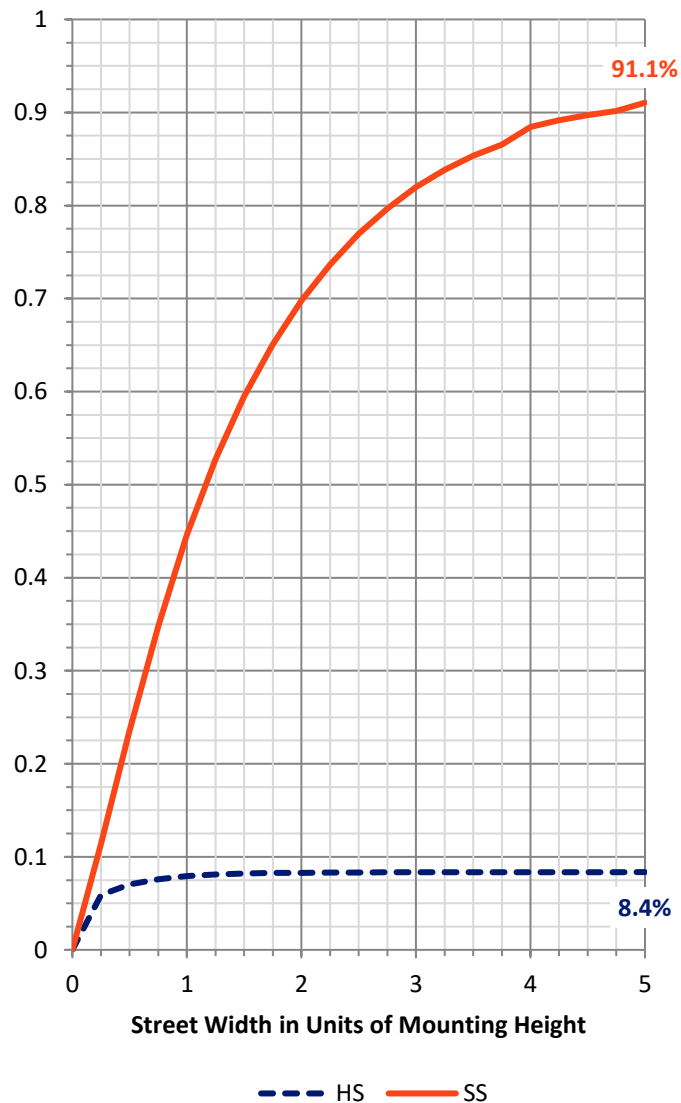
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1264.1	0.0	1264.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13757.8	0.0	13757.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	15022.0	0.0	15022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	1.6
10°-20°	575.6	3.8
20°-30°	915.6	6.1
30°-40°	1376.4	9.2
40°-50°	2099.9	14.0
50°-60°	2967.8	19.8
60°-70°	3722.6	24.8
70°-80°	2783.5	18.5
80°-90°	345.1	2.3
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°	15022.0	100.0
0°-180°	15022.0	100.0

Coefficient of Utilization



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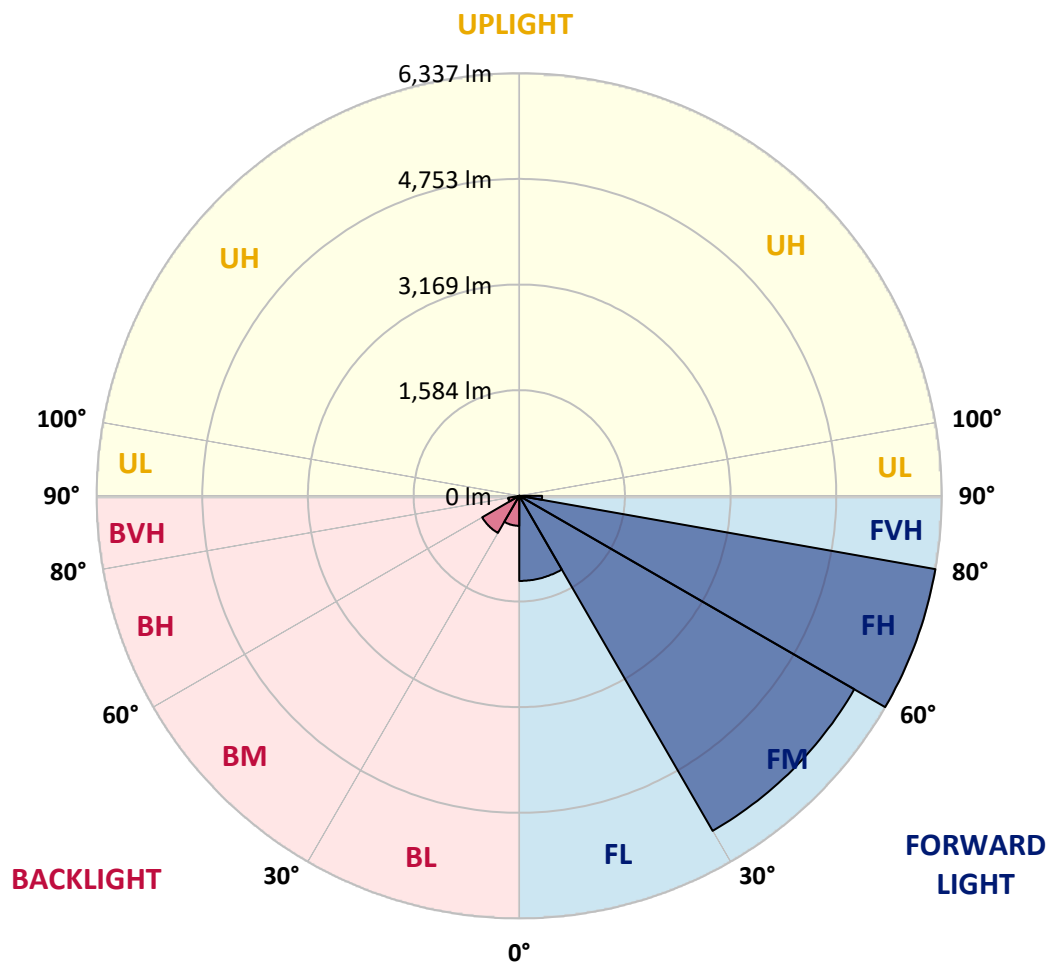
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1276.5	8.5			
FM	(30°-60°)	5802.2	38.6			
FH	(60°-80°)	6337.2	42.2			G3/7500
FVH	(80°-90°)	341.9	2.3			G3/500
BL	(0°-30°)	450.1	3.0	B1/500		
BM	(30°-60°)	642.0	4.3	B1/1000		
BH	(60°-80°)	168.9	1.1	B1/500		G1/500
BVH	(80°-90°)	3.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5
2.5°	2932.2	2932.8	2926.0	2914.7	2900.4	2892.9	2880.4	2860.4	2839.2	2801.2	2760.0
5°	2992.1	2992.1	2983.3	2968.4	2945.3	2938.4	2914.7	2882.9	2839.2	2777.5	2708.2
7.5°	2985.8	2987.1	2975.2	2959.6	2936.6	2930.3	2901.6	2866.1	2811.8	2736.9	2648.3
10°	2953.4	2956.5	2947.2	2939.7	2918.5	2911.6	2884.8	2849.2	2794.9	2715.1	2613.4
12.5°	2920.3	2923.5	2926.6	2933.4	2920.3	2917.8	2896.6	2866.7	2814.9	2731.9	2617.1
15°	2899.1	2905.4	2927.8	2954.6	2957.8	2955.3	2941.5	2913.5	2861.1	2775.0	2644.0
17.5°	2899.1	2909.1	2955.9	3007.1	3025.1	3027.0	3015.2	2975.9	2913.5	2821.1	2668.9
20°	2923.5	2937.2	3010.2	3082.5	3112.5	3112.5	3089.4	3034.5	2961.5	2862.9	2685.8
22.5°	2985.8	3003.9	3095.6	3179.2	3211.1	3204.2	3173.0	3093.1	3011.4	2910.4	2707.0
25°	3108.7	3122.5	3217.9	3302.1	3321.5	3305.9	3266.6	3164.3	3075.1	2974.6	2745.7
27.5°	3267.2	3269.1	3367.7	3438.8	3426.9	3416.3	3367.0	3253.5	3166.8	3066.3	2812.4
30°	3441.3	3441.3	3528.0	3582.3	3546.1	3537.3	3488.1	3361.4	3284.1	3191.1	2907.2
32.5°	3609.7	3617.2	3687.7	3722.0	3681.5	3672.7	3624.7	3498.0	3440.0	3381.4	3055.1
35°	3772.5	3778.2	3844.9	3863.6	3824.9	3827.4	3793.1	3685.8	3664.0	3656.5	3277.8
37.5°	3930.4	3931.6	3999.6	4011.5	3992.1	4013.4	4016.5	3921.6	3962.2	4022.7	3591.6
40°	4074.5	4075.7	4143.1	4173.7	4206.8	4234.2	4258.5	4208.0	4342.1	4482.5	3965.3
42.5°	4189.9	4203.0	4288.5	4346.5	4433.8	4486.2	4552.4	4549.9	4794.4	5005.3	4417.0
45°	4291.6	4314.1	4433.2	4534.9	4684.6	4768.2	4871.8	4952.9	5303.5	5587.4	4874.3
47.5°	4425.7	4446.9	4582.9	4749.5	4949.2	5059.0	5230.5	5405.8	5863.1	6158.8	5321.0
50°	4614.8	4605.4	4739.5	4978.5	5234.9	5379.0	5623.6	5886.2	6418.4	6656.7	5583.6
52.5°	4816.3	4812.5	4911.7	5227.4	5571.8	5740.2	6063.4	6382.8	6949.3	6999.8	5704.0
55°	5065.8	5039.0	5122.6	5511.3	5971.7	6152.6	6533.2	6874.4	7372.3	7193.2	5764.6
57.5°	5327.2	5282.9	5362.8	5827.6	6422.7	6636.7	7053.5	7353.6	7653.6	7325.5	5763.9
60°	5597.4	5545.0	5639.8	6223.1	6983.0	7230.7	7617.5	7677.3	7916.3	7392.2	5721.5
62.5°	5823.2	5792.0	5933.0	6646.1	7608.7	7852.0	8043.6	7971.8	8137.8	7444.0	5622.3
65°	6062.1	6064.0	6291.7	7139.6	8273.8	8437.8	8454.1	8353.6	8323.0	7433.4	5286.7
67.5°	6385.3	6415.3	6795.2	7809.6	8920.7	9047.4	9046.1	8767.2	8458.4	7011.7	4542.4
70°	6727.2	6797.7	7375.4	8576.3	9626.9	9755.5	9689.3	9030.5	7964.3	5669.7	3214.8
72.5°	6669.8	6792.1	7697.9	9059.8	10134.1	10232.1	9802.2	8383.6	6294.8	3295.3	1368.8
75°	5145.7	5287.3	7058.5	8580.7	9602.0	9514.0	8422.2	6523.8	3440.0	919.6	308.2
77.5°	2718.2	2793.7	4662.8	6536.9	7487.1	7303.0	5933.0	3619.1	1048.7	227.7	138.5
80°	1423.7	1441.1	2031.9	3708.9	4621.0	4622.3	3516.1	1589.6	432.3	116.7	93.0
82.5°	762.4	777.3	1073.7	1713.8	2421.2	2194.8	1346.3	874.7	251.4	66.1	89.2
85°	183.4	186.5	608.9	783.0	952.0	680.0	399.9	734.3	68.0	38.7	72.4
87.5°	70.5	71.7	225.8	338.8	242.7	157.2	187.2	273.9	8.7	15.0	11.2
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°	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5
2.5°	2735.0	2718.8	2678.9	2628.4	2583.4	2551.0	2502.3	2470.5	2449.3	2448.7	2440.6
5°	2665.8	2632.7	2546.6	2444.3	2351.4	2267.8	2169.2	2091.2	2033.2	2023.8	2003.9
7.5°	2591.6	2537.3	2405.0	2245.3	2089.3	1930.9	1746.8	1632.7	1534.7	1487.9	1482.9
10°	2546.0	2469.9	2282.1	2051.3	1806.7	1549.1	1308.3	1141.7	1021.3	987.0	961.4
12.5°	2536.7	2436.2	2187.3	1869.1	1519.7	1179.1	912.7	735.5	639.5	608.9	600.8
15°	2546.0	2420.6	2107.4	1688.8	1229.0	836.6	612.6	509.7	473.5	464.8	464.2
17.5°	2551.6	2401.9	2017.0	1488.6	947.0	597.7	469.2	439.2	433.6	433.0	434.2
20°	2551.0	2373.2	1909.0	1265.2	704.3	469.8	424.2	418.0	416.7	417.4	416.7
22.5°	2546.6	2339.5	1790.5	1035.0	532.2	419.9	404.9	401.1	400.5	400.5	400.5
25°	2554.7	2312.7	1660.1	814.8	438.6	396.8	387.4	384.3	383.7	383.7	382.4
27.5°	2584.1	2297.7	1517.3	627.0	396.2	376.2	368.7	368.1	366.2	365.6	366.8
30°	2631.5	2297.7	1360.7	487.9	370.6	355.0	349.4	348.1	347.5	346.9	347.5
32.5°	2715.1	2315.2	1189.7	405.5	346.2	331.3	327.5	329.4	327.5	327.5	327.5
35°	2866.1	2367.6	1010.7	353.7	320.7	308.2	304.4	306.9	305.7	305.7	305.1
37.5°	3086.3	2464.9	830.4	322.5	298.2	285.1	280.1	283.9	282.6	282.6	282.0
40°	3354.5	2606.5	658.8	298.8	276.4	262.6	258.3	260.2	257.0	257.0	258.3
42.5°	3685.8	2786.2	509.1	275.8	254.5	241.4	238.9	237.1	231.5	228.3	229.0
45°	4053.9	2973.4	396.8	253.3	234.0	223.3	219.6	214.6	205.3	199.0	199.6
47.5°	4382.7	3117.5	322.5	231.5	215.2	207.1	201.5	192.2	178.4	170.9	171.6
50°	4555.5	3139.3	274.5	209.6	197.8	189.7	181.5	167.2	151.0	142.9	142.2
52.5°	4599.8	3037.0	238.9	189.7	180.3	170.9	160.3	141.0	122.9	114.2	112.9
55°	4616.0	2881.0	207.1	170.9	161.6	151.0	137.3	115.4	98.6	89.8	89.2
57.5°	4562.4	2648.3	182.2	154.1	142.9	129.8	112.9	92.3	76.1	69.2	69.2
60°	4443.2	2333.3	162.8	136.0	123.5	108.6	91.1	71.7	56.8	51.2	51.2
62.5°	4205.5	1925.3	144.7	117.3	105.4	89.8	73.6	54.3	39.9	36.8	37.4
65°	3756.9	1460.5	126.6	100.4	89.8	74.2	57.4	38.7	26.8	26.8	28.1
67.5°	3063.8	1014.4	107.9	85.5	77.4	60.5	43.7	26.8	18.7	21.2	23.7
70°	2028.2	569.0	92.3	70.5	66.1	48.0	32.4	18.1	15.0	20.0	24.3
72.5°	765.5	221.5	77.4	56.8	57.4	36.8	23.1	13.7	13.7	21.8	28.7
75°	213.4	108.6	55.5	41.8	44.9	26.8	16.8	11.9	13.1	25.0	33.7
77.5°	125.4	79.9	36.2	24.3	30.6	18.7	11.2	9.4	11.2	21.2	32.4
80°	101.1	42.4	21.2	12.5	16.8	10.6	7.5	5.6	3.1	8.1	16.8
82.5°	101.1	25.6	10.0	8.7	8.7	5.6	3.7	2.5	0.6	0.0	4.4
85°	68.0	10.6	6.2	5.6	4.4	1.9	1.2	0.6	0.0	0.0	0.0
87.5°	11.2	4.4	2.5	1.2	0.6	0.0	0.0	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)