

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: P323767

Luminaire Tested: **GAN-SA3C-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323767
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-SA3C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 14656 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

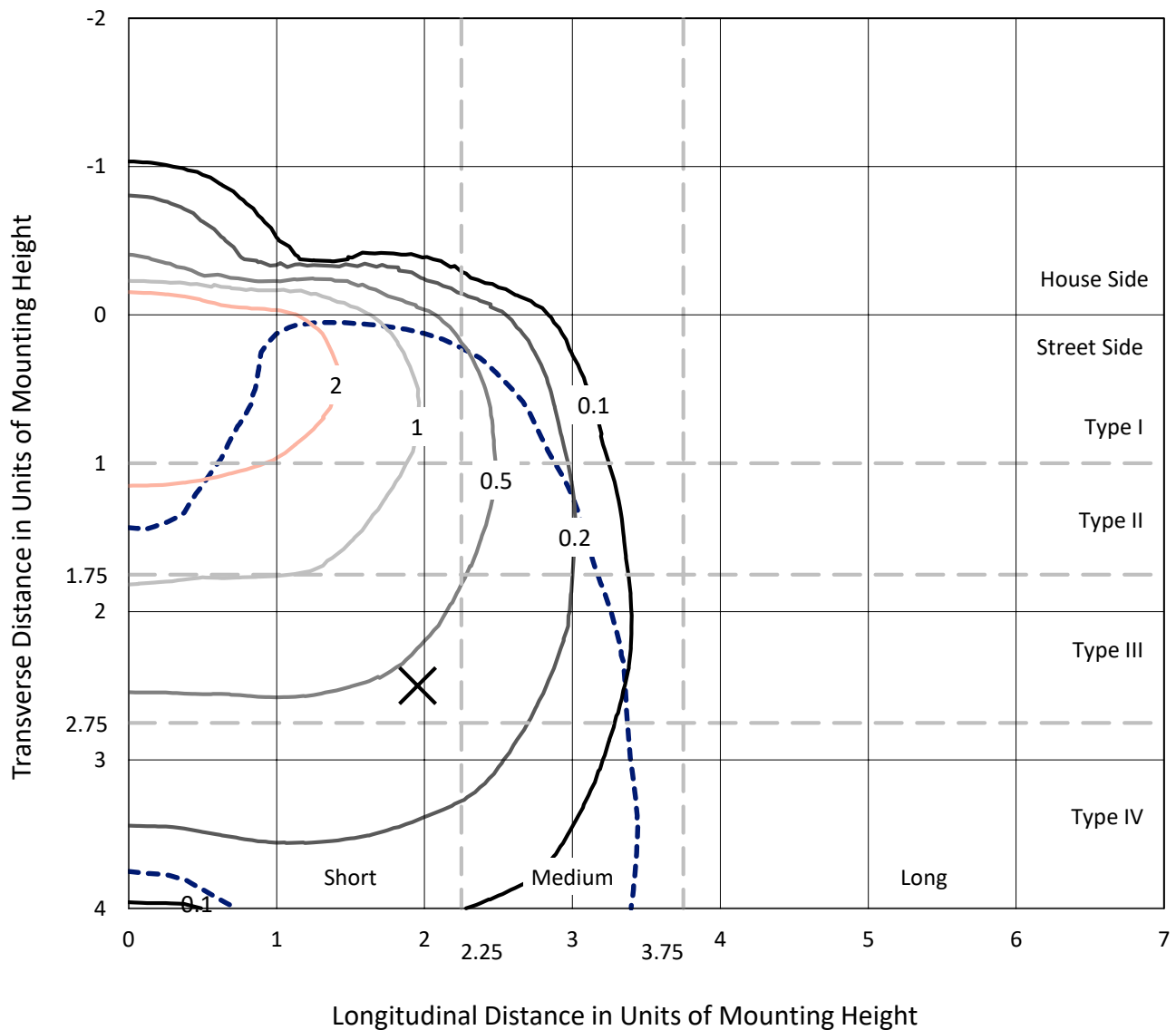
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

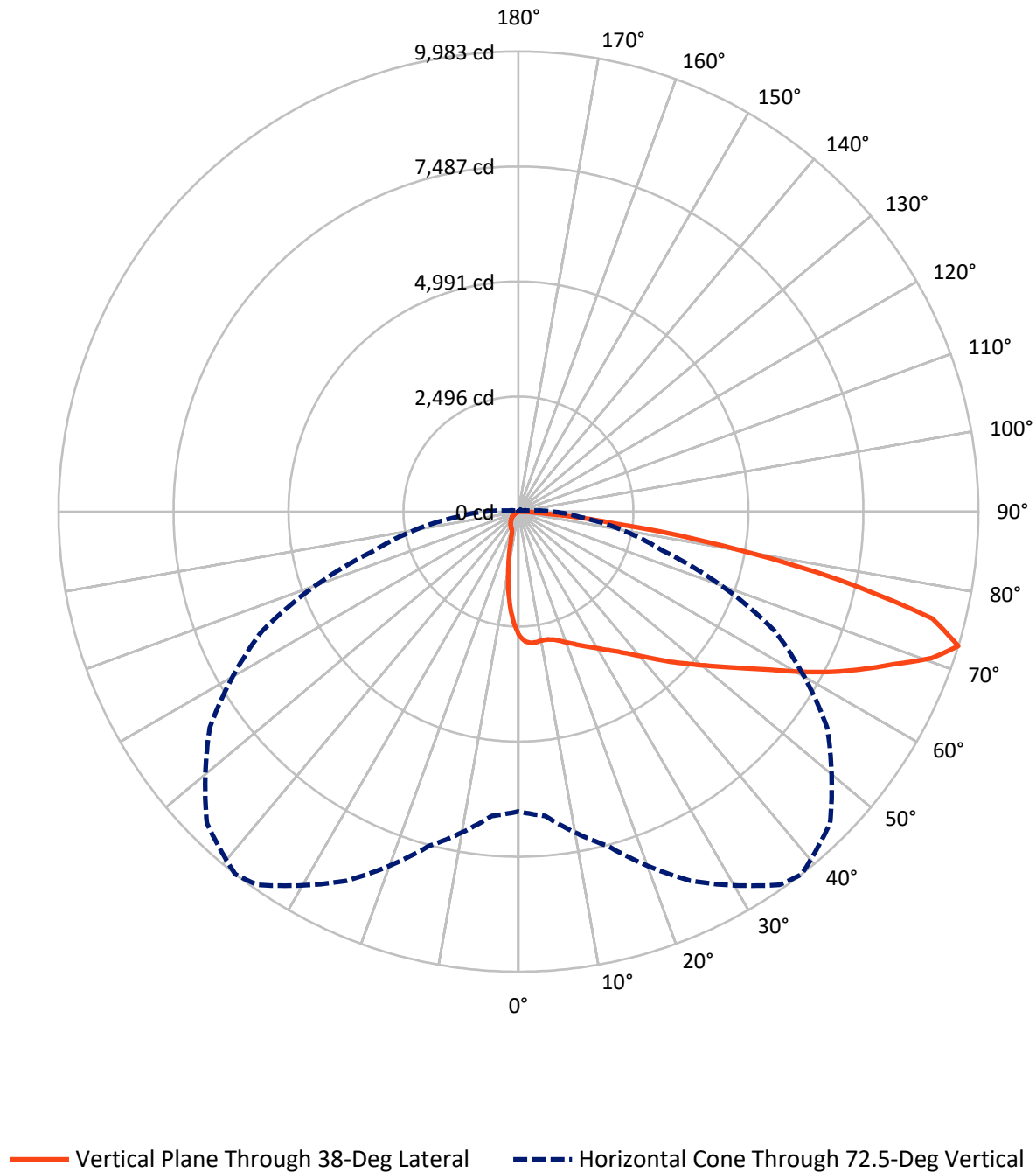
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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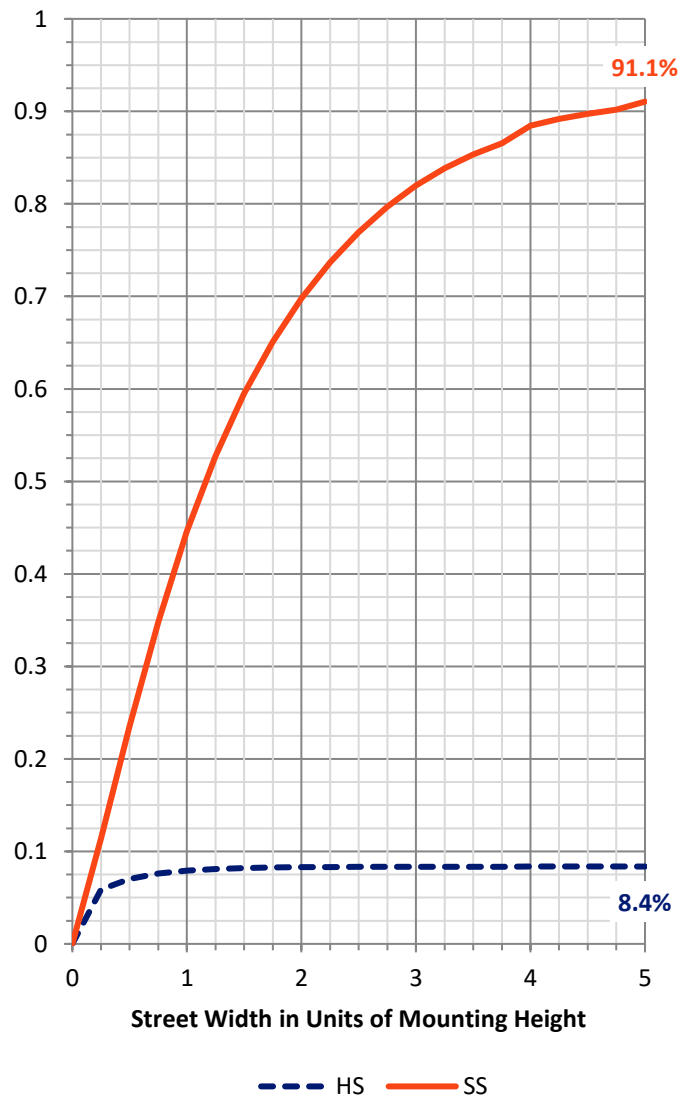
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1233.4	0.0	1233.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	13422.6	0.0	13422.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	14656.0	0.0	14656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	1.6
10°-20°	561.6	3.8
20°-30°	893.2	6.1
30°-40°	1342.9	9.2
40°-50°	2048.7	14.0
50°-60°	2895.5	19.8
60°-70°	3631.9	24.8
70°-80°	2715.7	18.5
80°-90°	336.7	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°	14656.0	100.0
0°-180°	14656.0	100.0

Coefficient of Utilization



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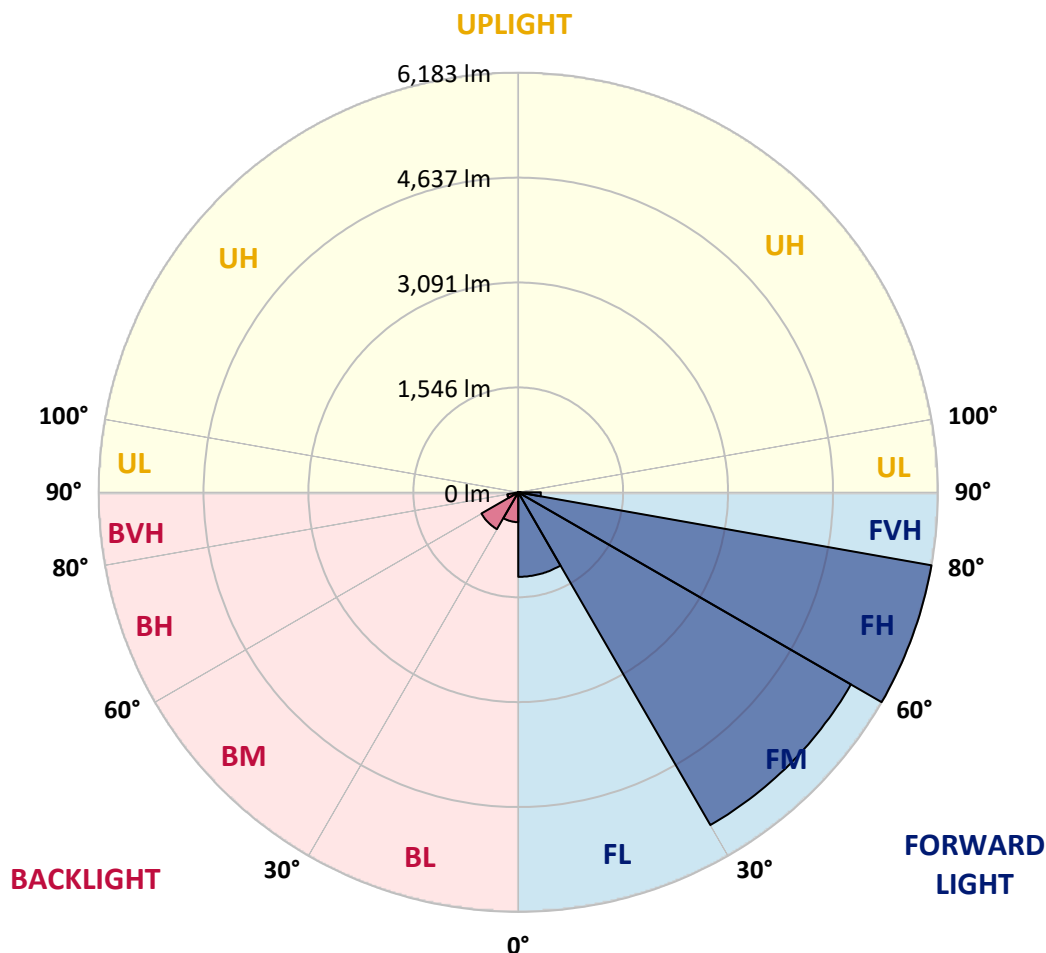
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.4	8.5			
FM	(30°-60°)	5660.8	38.6			
FH	(60°-80°)	6182.8	42.2			G3/7500
FVH	(80°-90°)	333.6	2.3			G3/500
BL	(0°-30°)	439.2	3.0	B1/500		
BM	(30°-60°)	626.3	4.3	B1/1000		
BH	(60°-80°)	164.8	1.1	B1/500		G1/500
BVH	(80°-90°)	3.1	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°	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2
2.5°	2860.7	2861.4	2854.7	2843.7	2829.7	2822.4	2810.2	2790.8	2770.1	2732.9	2692.8
5°	2919.2	2919.2	2910.7	2896.1	2873.5	2866.8	2843.7	2812.7	2770.1	2709.8	2642.2
7.5°	2913.1	2914.3	2902.7	2887.5	2865.0	2858.9	2830.9	2796.2	2743.3	2670.2	2583.8
10°	2881.4	2884.5	2875.4	2868.1	2847.4	2840.7	2814.5	2779.8	2726.8	2648.9	2549.7
12.5°	2849.2	2852.2	2855.3	2862.0	2849.2	2846.7	2826.1	2796.8	2746.3	2665.4	2553.4
15°	2828.5	2834.6	2856.5	2882.7	2885.7	2883.3	2869.9	2842.5	2791.4	2707.4	2579.5
17.5°	2828.5	2838.2	2883.9	2933.8	2951.4	2953.3	2941.7	2903.4	2842.5	2752.4	2603.9
20°	2852.2	2865.6	2936.8	3007.4	3036.7	3036.7	3014.1	2960.6	2889.4	2793.2	2620.3
22.5°	2913.1	2930.7	3020.2	3101.8	3132.8	3126.1	3095.7	3017.8	2938.0	2839.4	2641.0
25°	3033.0	3046.4	3139.5	3221.7	3240.6	3225.3	3187.0	3087.2	3000.1	2902.1	2678.8
27.5°	3187.6	3189.4	3285.6	3355.0	3343.4	3333.1	3285.0	3174.2	3089.6	2991.6	2743.9
30°	3357.4	3357.4	3442.0	3495.0	3459.7	3451.2	3403.1	3279.5	3204.0	3113.3	2836.4
32.5°	3521.8	3529.1	3597.8	3631.3	3591.8	3583.2	3536.4	3412.8	3356.2	3299.0	2980.7
35°	3680.6	3686.1	3751.2	3769.5	3731.8	3734.2	3700.7	3596.0	3574.7	3567.4	3198.0
37.5°	3834.6	3835.8	3902.2	3913.7	3894.9	3915.6	3918.6	3826.1	3865.7	3924.7	3504.1
40°	3975.2	3976.4	4042.2	4072.0	4104.3	4131.0	4154.8	4105.5	4236.3	4373.3	3868.7
42.5°	4087.8	4100.6	4184.0	4240.6	4325.8	4376.9	4441.5	4439.0	4677.6	4883.4	4309.4
45°	4187.0	4209.0	4325.2	4424.4	4570.5	4652.1	4753.1	4832.2	5174.3	5451.2	4755.5
47.5°	4317.9	4338.6	4471.3	4633.8	4828.6	4935.7	5103.1	5274.1	5720.3	6008.8	5191.3
50°	4502.3	4493.2	4624.1	4857.2	5107.3	5248.0	5486.6	5742.8	6262.0	6494.5	5447.6
52.5°	4698.9	4695.3	4792.1	5100.0	5436.0	5600.4	5915.7	6227.3	6780.0	6829.3	5565.1
55°	4942.4	4916.2	4997.8	5377.0	5826.2	6002.7	6374.0	6706.9	7192.7	7018.0	5624.1
57.5°	5197.4	5154.2	5232.1	5685.6	6266.3	6475.0	6881.6	7174.4	7467.2	7147.0	5623.5
60°	5461.0	5409.9	5502.4	6071.5	6812.8	7054.5	7431.9	7490.3	7723.4	7212.1	5582.1
62.5°	5681.3	5650.9	5788.5	6484.2	7423.3	7660.7	7847.6	7777.6	7939.5	7262.6	5485.3
65°	5914.4	5916.3	6138.4	6965.6	8072.2	8232.3	8248.1	8150.1	8120.3	7252.3	5157.9
67.5°	6229.7	6259.0	6629.6	7619.3	8703.4	8826.9	8825.7	8553.6	8252.3	6840.8	4431.7
70°	6563.3	6632.1	7195.7	8367.4	9392.4	9517.8	9453.3	8810.5	7770.3	5531.6	3136.5
72.5°	6507.3	6626.6	7510.4	8839.1	9887.2	9982.8	9563.4	8179.3	6141.5	3215.0	1335.4
75°	5020.3	5158.5	6886.5	8371.6	9368.0	9282.2	8217.0	6364.9	3356.2	897.2	300.7
77.5°	2652.0	2725.6	4549.2	6377.6	7304.6	7125.1	5788.5	3530.9	1023.2	222.2	135.1
80°	1389.0	1406.0	1982.4	3618.5	4508.4	4509.6	3430.5	1550.9	421.8	113.8	90.7
82.5°	743.8	758.4	1047.5	1672.0	2362.2	2141.3	1313.5	853.4	245.3	64.5	87.0
85°	178.9	182.0	594.1	763.9	928.8	663.5	390.2	716.4	66.3	37.7	70.6
87.5°	68.8	70.0	220.3	330.5	236.8	153.4	182.6	267.2	8.5	14.6	11.0
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°	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2	2695.2
2.5°	2668.4	2652.6	2613.6	2564.3	2520.5	2488.9	2441.4	2410.3	2389.6	2389.0	2381.1
5°	2600.8	2568.6	2484.6	2384.8	2294.1	2212.5	2116.3	2040.3	1983.7	1974.5	1955.0
7.5°	2528.4	2475.5	2346.4	2190.6	2038.4	1883.8	1704.3	1592.9	1497.3	1451.7	1446.8
10°	2484.0	2409.7	2226.5	2001.3	1762.7	1511.3	1276.4	1113.9	996.4	962.9	938.0
12.5°	2474.9	2376.9	2134.0	1823.6	1482.7	1150.4	890.5	717.6	623.9	594.1	586.1
15°	2484.0	2361.6	2056.1	1647.7	1199.1	816.2	597.7	497.3	462.0	453.5	452.9
17.5°	2489.5	2343.4	1967.8	1452.3	924.0	583.1	457.7	428.5	423.0	422.4	423.6
20°	2488.9	2315.4	1862.5	1234.4	687.2	458.3	413.9	407.8	406.6	407.2	406.6
22.5°	2484.6	2282.5	1746.9	1009.8	519.2	409.6	395.0	391.4	390.8	390.8	390.8
25°	2492.5	2256.3	1619.7	794.9	427.9	387.1	378.0	374.9	374.3	374.3	373.1
27.5°	2521.1	2241.7	1480.3	611.7	386.5	367.0	359.7	359.1	357.3	356.7	357.9
30°	2567.4	2241.7	1327.5	476.0	361.5	346.3	340.9	339.6	339.0	338.4	339.0
32.5°	2648.9	2258.8	1160.7	395.6	337.8	323.2	319.6	321.4	319.6	319.6	319.6
35°	2796.2	2309.9	986.0	345.1	312.9	300.7	297.0	299.5	298.2	298.2	297.6
37.5°	3011.1	2404.9	810.1	314.7	290.9	278.2	273.3	276.9	275.7	275.7	275.1
40°	3272.8	2543.0	642.8	291.6	269.6	256.3	252.0	253.8	250.8	250.8	252.0
42.5°	3596.0	2718.3	496.7	269.0	248.3	235.6	233.1	231.3	225.8	222.8	223.4
45°	3955.1	2900.9	387.1	247.1	228.3	217.9	214.3	209.4	200.3	194.2	194.8
47.5°	4275.9	3041.5	314.7	225.8	210.0	202.1	196.6	187.5	174.1	166.8	167.4
50°	4444.5	3062.8	267.8	204.5	192.9	185.0	177.1	163.1	147.3	139.4	138.8
52.5°	4487.7	2963.0	233.1	185.0	175.9	166.8	156.4	137.6	119.9	111.4	110.2
55°	4503.5	2810.8	202.1	166.8	157.6	147.3	133.9	112.6	96.2	87.6	87.0
57.5°	4451.2	2583.8	177.7	150.3	139.4	126.6	110.2	90.1	74.3	67.6	67.6
60°	4334.9	2276.4	158.9	132.7	120.5	105.9	88.9	70.0	55.4	49.9	49.9
62.5°	4103.0	1878.4	141.2	114.4	102.9	87.6	71.8	53.0	39.0	35.9	36.5
65°	3665.4	1424.9	123.6	98.0	87.6	72.4	56.0	37.7	26.2	26.2	27.4
67.5°	2989.2	989.7	105.3	83.4	75.5	59.0	42.6	26.2	18.3	20.7	23.1
70°	1978.8	555.1	90.1	68.8	64.5	46.9	31.7	17.7	14.6	19.5	23.7
72.5°	746.8	216.1	75.5	55.4	56.0	35.9	22.5	13.4	13.4	21.3	28.0
75°	208.2	105.9	54.2	40.8	43.8	26.2	16.4	11.6	12.8	24.3	32.9
77.5°	122.3	77.9	35.3	23.7	29.8	18.3	11.0	9.1	11.0	20.7	31.7
80°	98.6	41.4	20.7	12.2	16.4	10.3	7.3	5.5	3.0	7.9	16.4
82.5°	98.6	25.0	9.7	8.5	8.5	5.5	3.7	2.4	0.6	0.0	4.3
85°	66.3	10.3	6.1	5.5	4.3	1.8	1.2	0.6	0.0	0.0	0.0
87.5°	11.0	4.3	2.4	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)