

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: P322401

Luminaire Tested: **GAN-SA7B-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23407 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

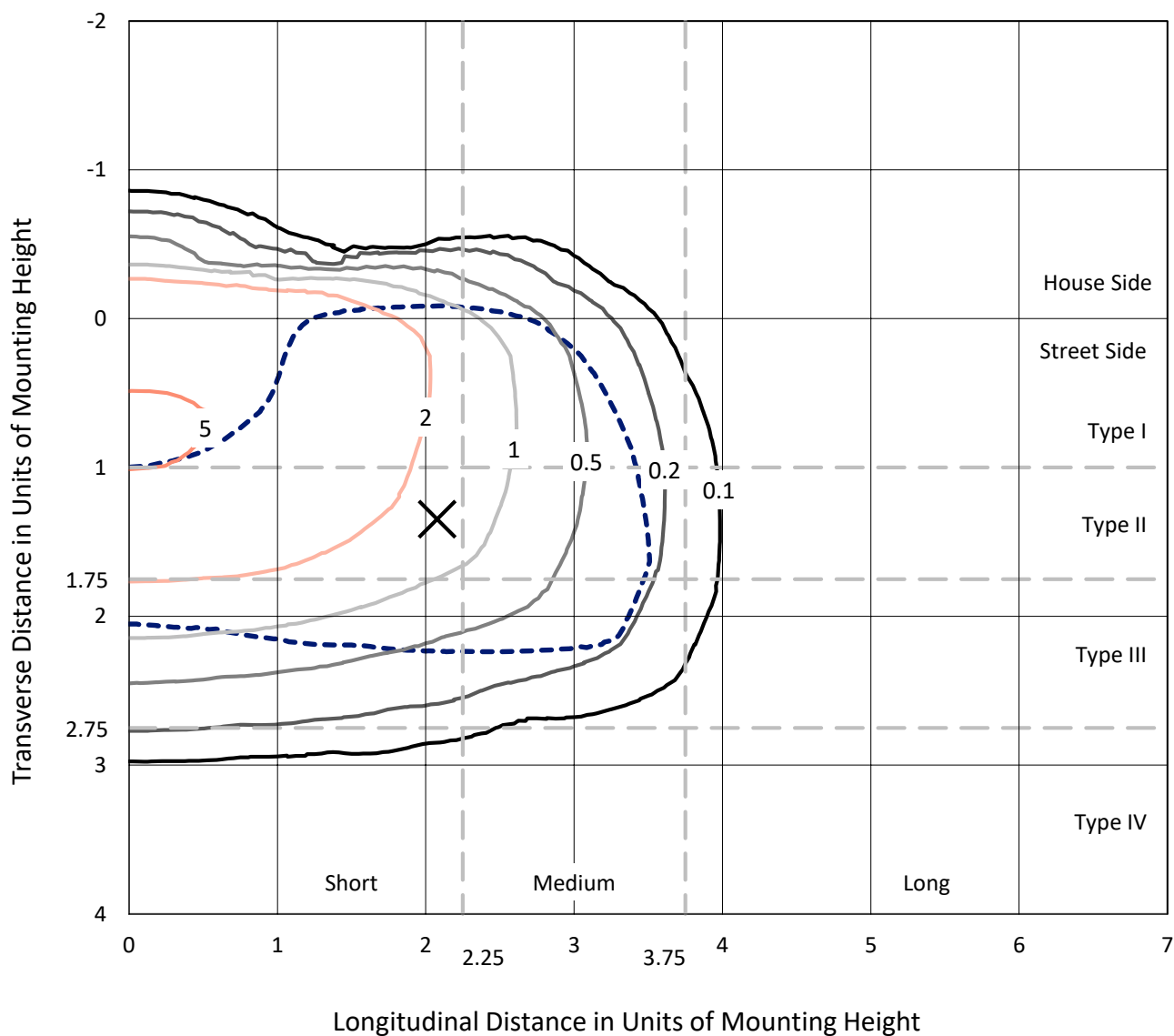
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

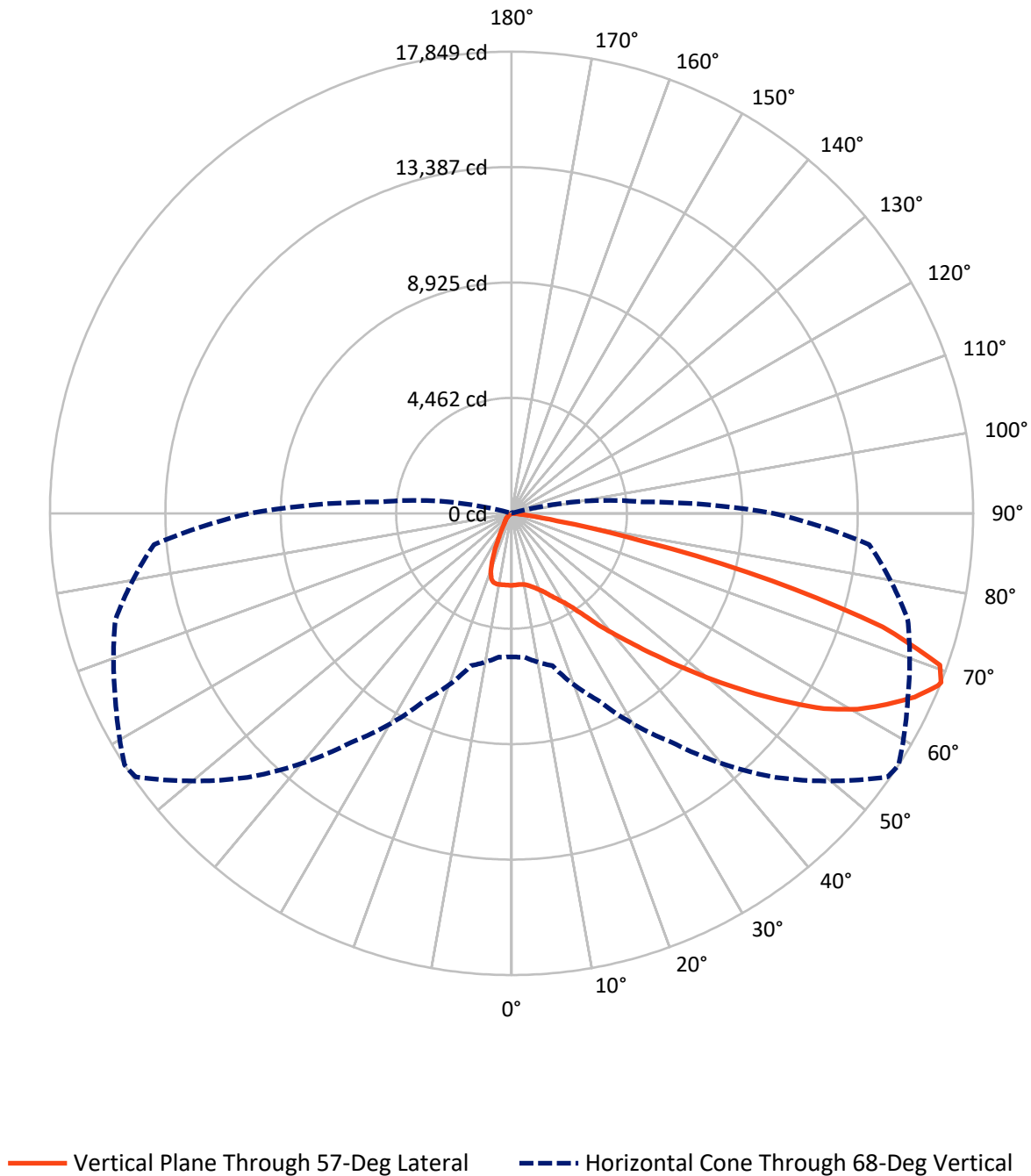
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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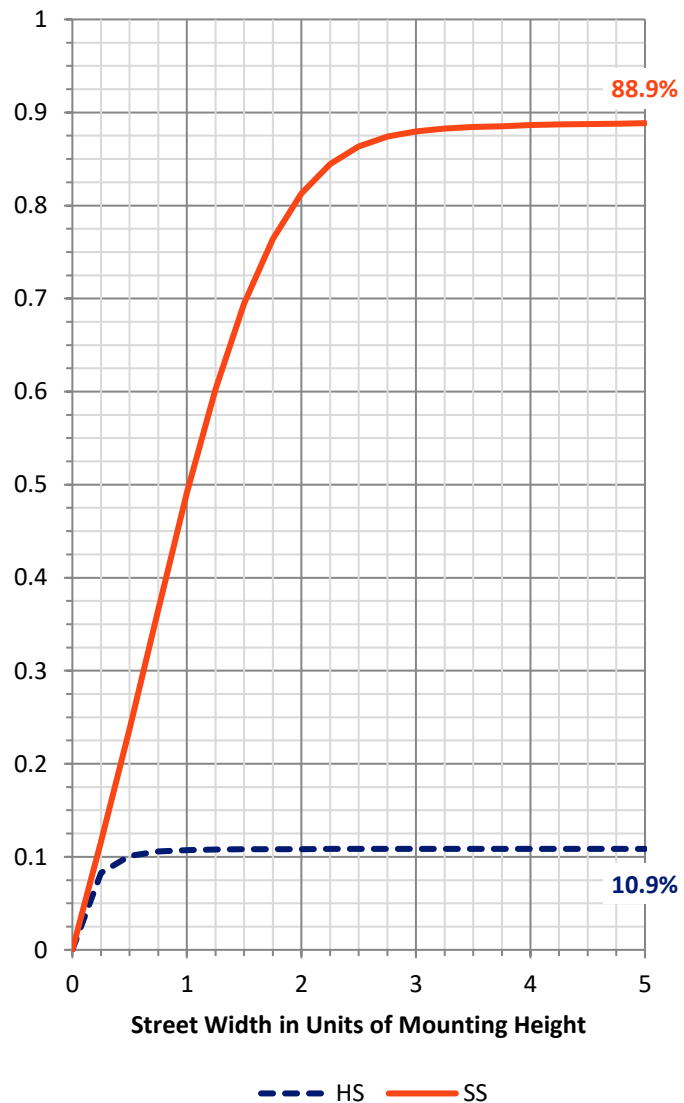
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2566.7	0.0	2566.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	20840.3	0.0	20840.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	23407.0	0.0	23407.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.3	1.1
10°-20°	721.3	3.1
20°-30°	1244.3	5.3
30°-40°	2147.6	9.2
40°-50°	3673.5	15.7
50°-60°	5877.3	25.1
60°-70°	6790.6	29.0
70°-80°	2594.8	11.1
80°-90°	97.3	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°	23407.0	100.0
0°-180°	23407.0	100.0

Coefficient of Utilization



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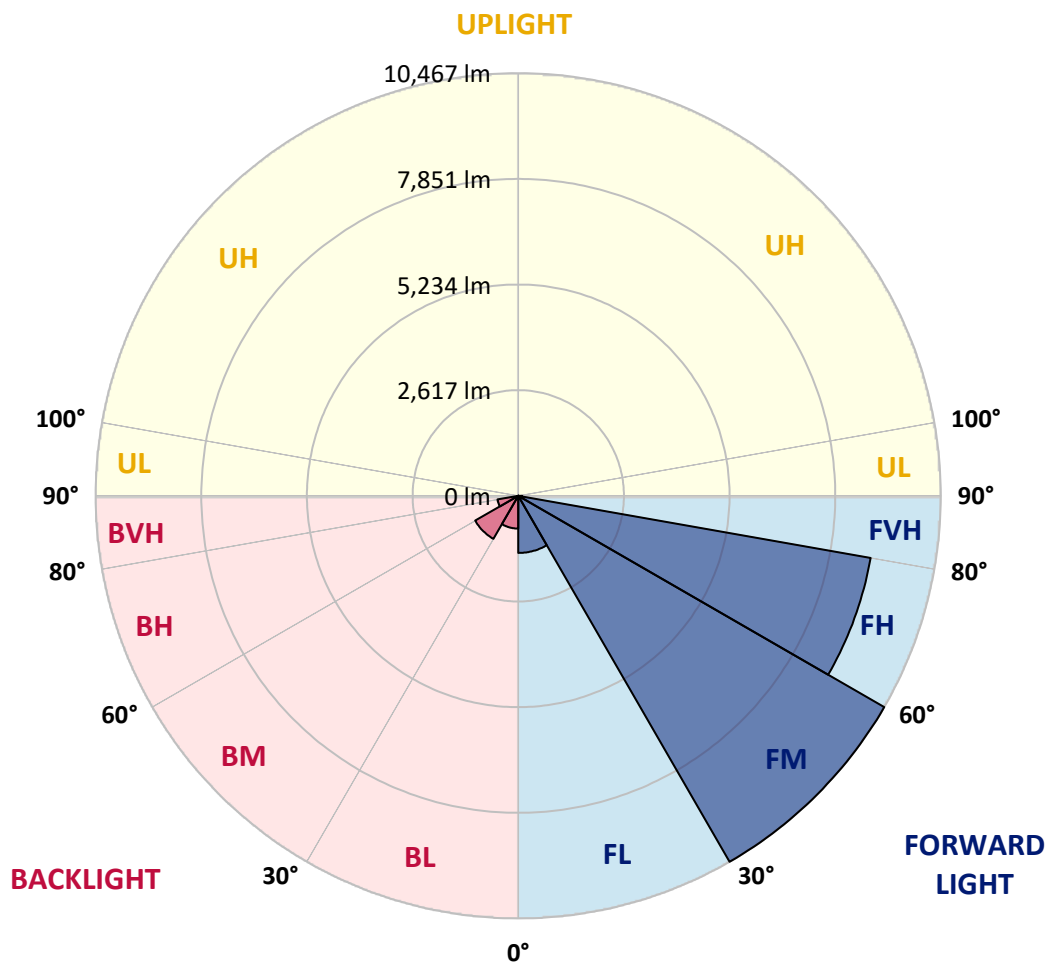
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1414.7	6.0			
FM	(30°-60°)	10467.4	44.7			
FH	(60°-80°)	8862.6	37.9			G4/12000
FVH	(80°-90°)	95.5	0.4			G1/100
BL	(0°-30°)	811.2	3.5	B2/1000		
BM	(30°-60°)	1231.0	5.3	B2/2500		
BH	(60°-80°)	522.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4
2.5°	2716.1	2728.2	2737.1	2742.6	2749.3	2763.7	2768.1	2774.7	2778.0	2778.0	2785.8
5°	2608.7	2622.0	2640.8	2656.3	2687.3	2727.1	2755.9	2767.0	2786.9	2804.6	2814.6
7.5°	2509.1	2524.6	2546.7	2583.3	2636.4	2700.6	2760.3	2775.8	2814.6	2852.2	2871.0
10°	2444.9	2457.1	2485.9	2537.9	2607.6	2697.3	2781.4	2800.2	2866.6	2929.7	2965.1
12.5°	2422.8	2433.8	2463.7	2522.4	2608.7	2713.9	2830.1	2857.7	2955.1	3047.0	3096.8
15°	2454.9	2457.1	2489.2	2544.5	2629.7	2754.8	2910.9	2944.1	3066.9	3186.5	3248.4
17.5°	2578.8	2568.9	2585.5	2609.8	2677.3	2809.0	2996.1	3045.9	3209.7	3350.3	3408.9
20°	2888.7	2888.7	2851.1	2784.7	2785.8	2893.2	3111.2	3167.6	3368.0	3530.7	3583.8
22.5°	3418.9	3408.9	3333.7	3171.0	3021.5	3038.1	3251.8	3324.8	3558.3	3732.1	3749.8
25°	4056.4	4044.2	3928.0	3698.9	3439.9	3272.8	3442.1	3526.2	3785.2	3939.1	3902.5
27.5°	4731.5	4721.6	4606.5	4322.0	3953.5	3646.9	3669.0	3748.7	4016.5	4168.2	4052.0
30°	5385.7	5389.0	5275.0	4982.8	4565.5	4123.9	3956.8	4003.3	4241.2	4395.1	4229.1
32.5°	6007.7	6012.1	5913.6	5587.1	5197.5	4678.4	4355.2	4343.1	4502.4	4654.1	4463.7
35°	6562.2	6573.2	6505.7	6252.3	5839.4	5296.0	4872.1	4843.3	4873.2	5044.8	4823.4
37.5°	7096.8	7103.4	7052.5	6838.9	6493.5	5974.5	5525.1	5484.2	5420.0	5551.7	5298.2
40°	7682.2	7665.6	7607.0	7413.3	7116.7	6723.8	6226.8	6156.0	6044.2	6161.5	5922.4
42.5°	8226.8	8208.0	8217.9	7998.8	7748.7	7494.1	7044.7	6923.0	6857.7	6992.7	6688.3
45°	8907.5	8897.5	8930.7	8740.3	8537.8	8353.0	7982.2	7849.4	7820.6	7978.9	7614.7
47.5°	9579.3	9603.6	9706.6	9625.8	9543.9	9381.2	8975.0	8915.2	8932.9	9124.4	8592.0
50°	10139.3	10168.1	10450.3	10543.3	10661.7	10566.5	10159.2	10122.7	10192.4	10365.1	9643.5
52.5°	10544.4	10603.1	10953.9	11382.3	11813.9	11878.1	11471.9	11438.7	11532.8	11559.3	10455.9
55°	10825.5	10877.6	11274.9	12058.5	12937.3	13214.0	12961.6	12833.3	12815.5	12553.2	11310.3
57.5°	10875.3	10869.8	11440.9	12495.7	13818.3	14532.2	14372.8	14246.6	13883.6	13471.9	12289.8
60°	10594.2	10626.3	11289.3	12647.3	14371.7	15529.4	15541.6	15377.8	14812.2	14365.1	13239.4
62.5°	9728.7	9859.3	10528.9	12250.0	14365.1	15931.2	16398.2	16273.2	15596.9	15096.6	14202.4
65°	8325.3	8371.8	9010.4	10888.6	13394.4	15762.9	17169.7	17123.2	16304.2	15807.2	14697.1
67.5°	6079.6	5978.9	6649.6	8574.3	11340.2	14782.3	17723.1	17781.7	16849.8	15953.3	14170.3
68°	5548.3	5578.2	6100.6	8002.1	10802.3	14435.9	17759.6	17849.2	16904.0	15858.1	13882.5
70°	3307.1	3364.6	3830.6	5509.6	8217.9	12475.8	17365.6	17570.3	16580.9	14876.4	12007.6
72.5°	844.5	913.1	1353.6	2465.9	4693.9	8790.1	14659.5	15005.9	14396.0	12068.5	8106.1
75°	347.5	365.2	483.7	812.4	1748.7	3960.1	9662.3	10403.8	9979.9	7225.1	3663.5
77.5°	240.2	252.3	311.0	450.5	757.0	1342.5	4737.1	5272.8	4750.4	2465.9	799.1
80°	172.7	182.6	222.5	299.9	435.0	479.2	1544.0	1785.3	1417.8	541.2	198.1
82.5°	102.9	110.7	166.0	213.6	264.5	229.1	384.1	436.1	410.6	269.0	88.5
85°	50.9	59.8	111.8	152.7	142.8	96.3	117.3	130.6	161.6	163.8	47.6
87.5°	3.3	6.6	65.3	91.9	39.8	22.1	34.3	42.1	57.6	80.8	19.9
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°	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4	2781.4
2.5°	2789.1	2790.2	2782.5	2779.2	2781.4	2768.1	2762.6	2764.8	2764.8	2768.1	2762.6
5°	2816.8	2816.8	2803.5	2785.8	2775.8	2750.4	2733.8	2729.3	2726.0	2723.8	2719.4
7.5°	2876.6	2869.9	2846.7	2807.9	2774.7	2719.4	2677.3	2655.2	2644.1	2639.7	2636.4
10°	2972.8	2960.7	2921.9	2850.0	2773.6	2675.1	2583.3	2518.0	2463.7	2441.6	2428.3
12.5°	3102.3	3084.6	3019.3	2899.8	2765.9	2584.4	2385.1	2193.7	2015.5	1942.4	1905.9
15°	3251.8	3226.3	3123.4	2941.9	2720.5	2379.6	1946.8	1611.5	1364.7	1271.7	1231.9
17.5°	3403.4	3370.2	3214.1	2968.4	2584.4	1955.7	1365.8	1031.5	866.6	822.3	806.9
20°	3556.1	3507.4	3292.7	2948.5	2276.7	1410.1	900.9	753.7	706.1	692.9	688.4
22.5°	3701.1	3625.9	3363.5	2871.0	1803.0	946.3	712.8	666.3	650.8	643.0	640.8
25°	3827.3	3722.1	3425.5	2632.0	1276.1	715.0	641.9	626.4	606.5	592.1	593.2
27.5°	3945.7	3818.4	3463.2	2237.9	851.1	610.9	594.3	573.3	536.8	515.8	515.8
30°	4088.5	3946.8	3490.8	1722.2	626.4	540.1	526.8	494.7	444.9	417.3	417.3
32.5°	4303.2	4141.6	3473.1	1208.6	519.1	474.8	443.8	399.6	345.3	318.8	317.6
35°	4631.9	4442.7	3346.9	792.5	458.2	412.8	363.0	308.8	261.2	239.1	238.0
37.5°	5074.6	4845.5	3063.6	566.7	410.6	355.3	295.5	235.7	200.3	185.9	184.8
40°	5649.1	5313.7	2658.5	459.3	366.3	299.9	228.0	182.6	158.3	147.2	148.3
42.5°	6338.6	5815.1	2172.6	396.2	323.2	246.8	178.2	143.9	128.4	120.6	118.4
45°	7104.5	6309.8	1663.5	353.1	280.0	199.2	139.5	114.0	101.8	97.4	97.4
47.5°	7946.8	6791.3	1217.5	315.4	233.5	153.8	111.8	93.0	83.0	79.7	78.6
50°	8711.6	7125.5	877.7	275.6	191.5	121.7	90.8	77.5	70.8	66.4	66.4
52.5°	9349.1	7230.7	646.4	232.4	155.0	97.4	75.3	66.4	59.8	56.4	56.4
55°	9910.2	7187.5	480.3	191.5	125.1	79.7	64.2	56.4	50.9	47.6	47.6
57.5°	10448.1	7048.1	358.6	156.1	100.7	64.2	54.2	47.6	42.1	39.8	39.8
60°	10887.5	6815.6	266.7	126.2	80.8	52.0	45.4	38.7	34.3	31.0	31.0
62.5°	11243.9	6558.9	195.9	104.0	64.2	41.0	35.4	32.1	25.5	22.1	22.1
65°	11246.1	6132.7	147.2	86.3	49.8	32.1	26.6	25.5	16.6	13.3	12.2
67.5°	10432.6	5287.1	112.9	74.2	38.7	24.3	19.9	21.0	8.9	5.5	4.4
68°	10137.1	5072.4	106.3	73.0	36.5	23.2	18.8	21.0	7.7	4.4	3.3
70°	8546.6	4035.4	85.2	70.8	32.1	17.7	15.5	21.0	6.6	3.3	2.2
72.5°	5466.4	2342.0	63.1	56.4	24.3	13.3	10.0	18.8	6.6	2.2	1.1
75°	2326.5	726.1	43.2	39.8	14.4	10.0	6.6	12.2	4.4	1.1	0.0
77.5°	490.3	163.8	25.5	24.3	10.0	6.6	4.4	3.3	1.1	0.0	0.0
80°	126.2	47.6	13.3	12.2	5.5	3.3	2.2	0.0	0.0	0.0	0.0
82.5°	39.8	18.8	7.7	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	11.1	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	3.3	1.1	0.0	0.0	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)