

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: P322471

Luminaire Tested: **GAN-SA7A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19576 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

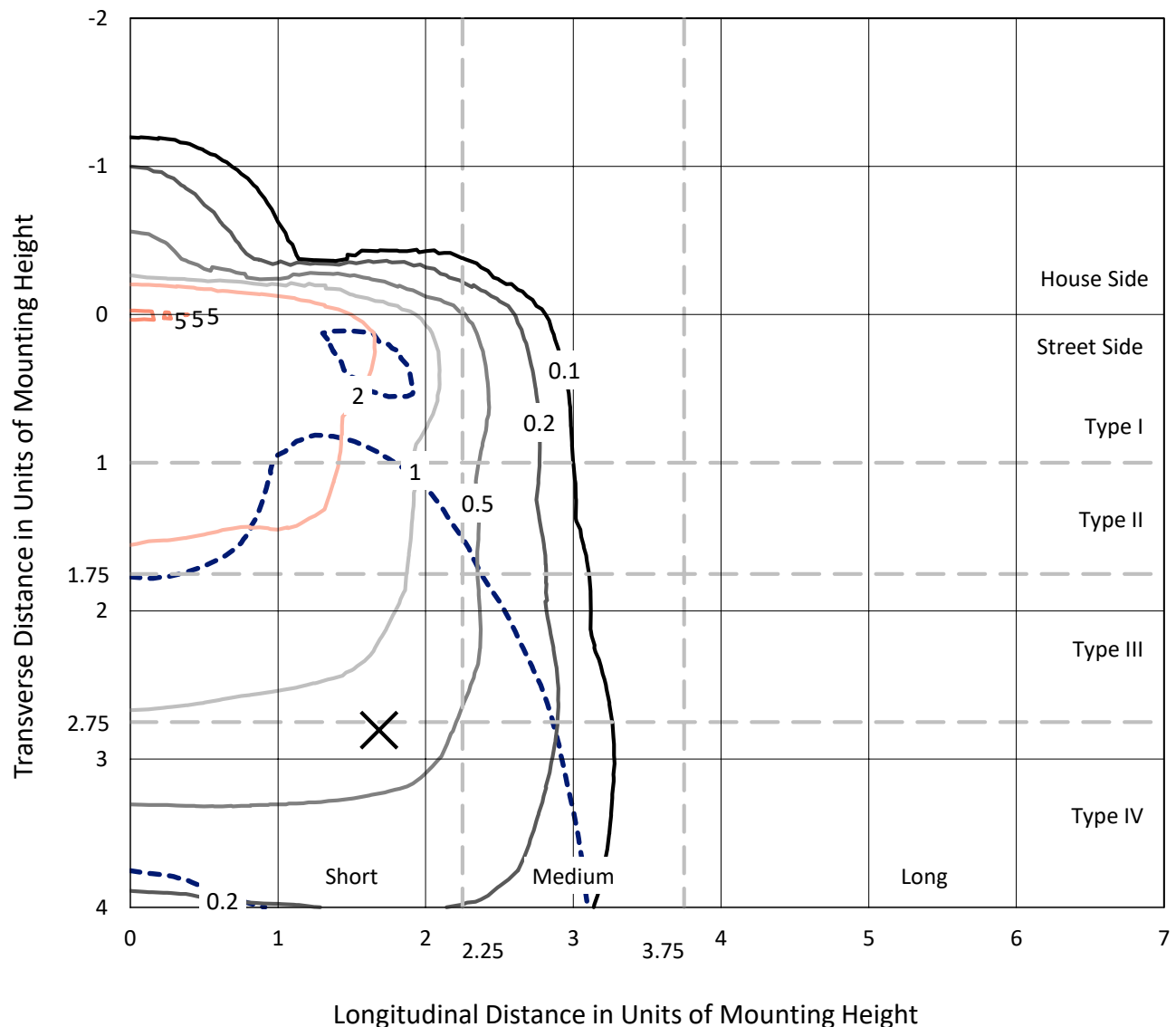
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

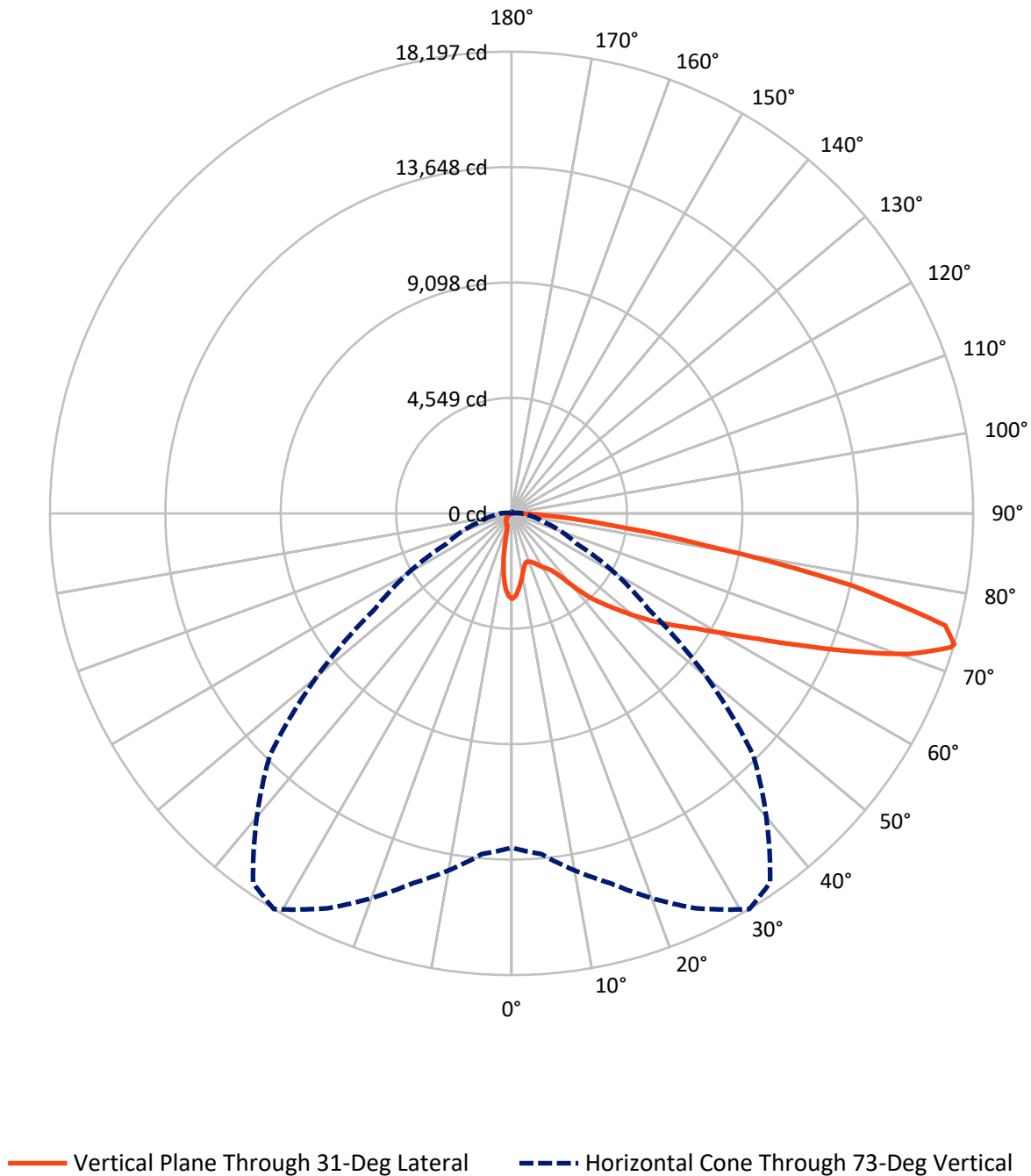
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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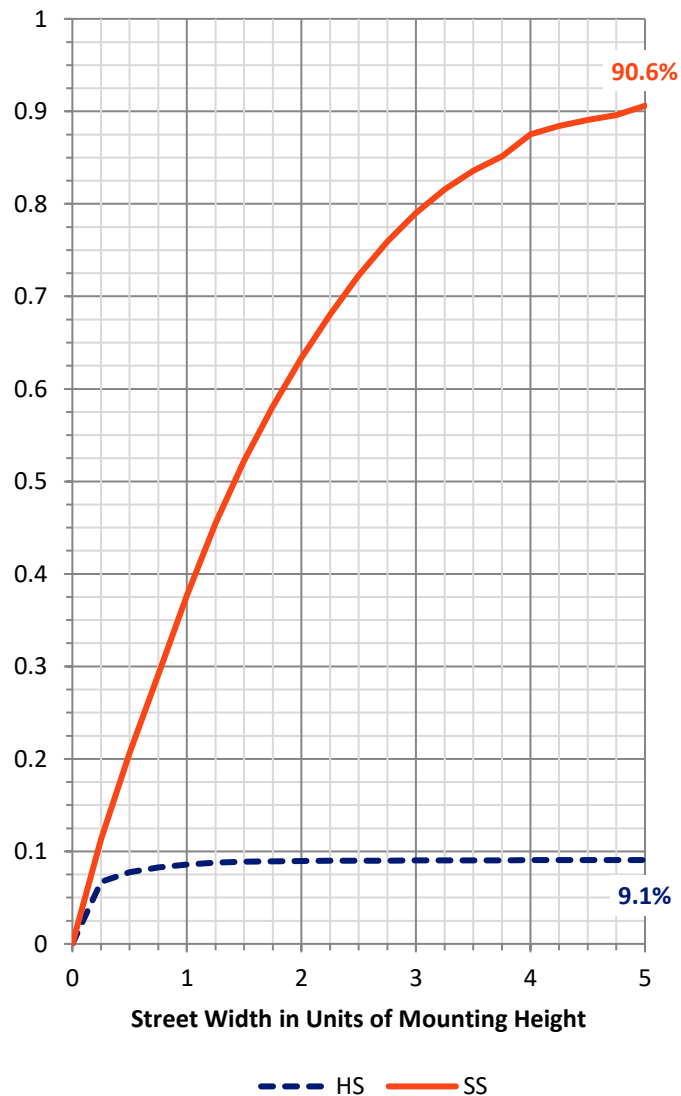
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1784.4	0.0	1784.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	17791.6	0.0	17791.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	19576.0	0.0	19576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.3	1.4
10°-20°	606.4	3.1
20°-30°	908.5	4.6
30°-40°	1445.4	7.4
40°-50°	2581.1	13.2
50°-60°	4005.2	20.5
60°-70°	5324.3	27.2
70°-80°	4005.0	20.5
80°-90°	420.8	2.1
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°	19576.0	100.0
0°-180°	19576.0	100.0

Coefficient of Utilization



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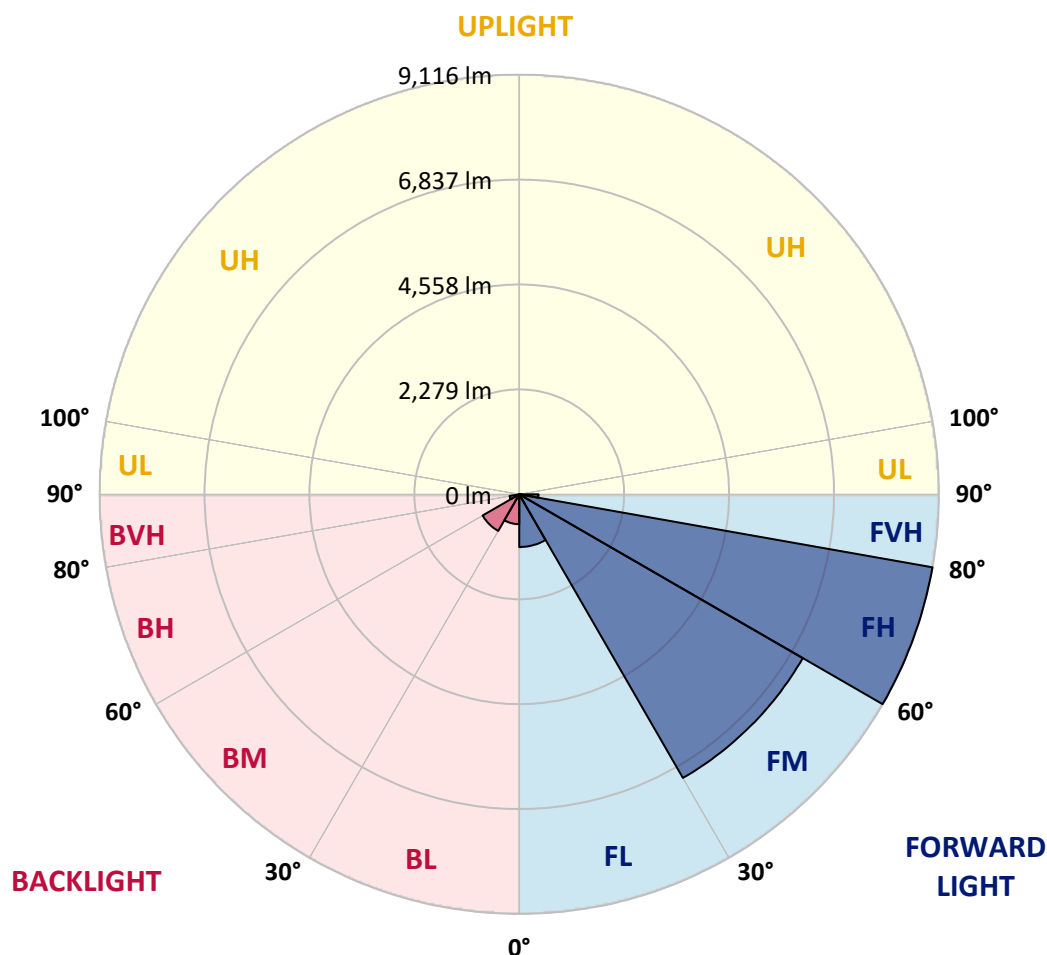
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1145.2	5.9			
FM	(30°-60°)	7113.2	36.3			
FH	(60°-80°)	9115.8	46.6			G4/12000
FVH	(80°-90°)	417.3	2.1			G3/500
BL	(0°-30°)	648.9	3.3	B2/1000		
BM	(30°-60°)	918.5	4.7	B1/1000		
BH	(60°-80°)	213.5	1.1	B1/500		G1/500
BVH	(80°-90°)	3.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1
2.5°	3191.8	3205.2	3219.6	3222.5	3246.4	3247.4	3281.9	3307.7	3333.6	3358.5	3367.1
5°	2864.2	2886.3	2912.1	2938.0	2988.7	3008.9	3093.2	3179.4	3261.8	3340.3	3378.6
7.5°	2514.6	2539.5	2575.9	2640.1	2696.6	2735.9	2869.0	3022.3	3175.5	3320.2	3403.5
10°	2195.6	2218.6	2256.9	2324.9	2412.1	2465.7	2644.9	2857.5	3082.6	3302.0	3440.9
12.5°	1992.5	2005.0	2026.0	2098.8	2177.4	2237.7	2448.5	2711.9	3006.0	3301.0	3501.2
15°	1955.1	1959.0	1941.7	1974.3	2035.6	2094.0	2307.7	2594.1	2947.6	3316.4	3579.8
17.5°	2014.5	2012.6	1955.1	1951.3	2000.2	2048.1	2238.7	2512.7	2906.4	3351.8	3681.3
20°	2104.6	2097.9	1998.2	1980.0	2031.8	2076.8	2233.9	2482.0	2891.0	3411.2	3804.9
22.5°	2224.3	2212.8	2056.7	2037.5	2093.1	2140.0	2293.3	2511.7	2904.5	3490.7	3948.6
25°	2372.8	2355.6	2157.3	2136.2	2192.7	2239.6	2399.6	2597.0	2944.7	3587.5	4130.6
27.5°	2540.4	2515.5	2318.2	2263.6	2327.8	2376.6	2541.4	2727.2	3007.9	3690.0	4353.8
30°	2698.5	2665.9	2487.8	2397.7	2476.3	2530.9	2694.7	2882.4	3109.4	3848.0	4659.4
32.5°	2857.5	2821.1	2639.1	2531.8	2602.7	2662.1	2852.7	3096.0	3300.1	4089.4	5065.5
35°	3223.4	3185.1	2961.9	2784.7	2783.8	2817.3	3074.0	3388.2	3552.0	4425.6	5550.3
37.5°	3839.4	3817.4	3604.7	3268.5	3178.4	3141.1	3375.8	3736.9	3914.1	4888.3	6097.2
40°	4513.8	4494.6	4256.1	3951.5	3814.5	3722.5	3808.7	4222.6	4425.6	5453.5	6655.7
42.5°	5275.3	5184.3	4759.0	4668.0	4545.4	4475.5	4397.9	4821.3	5054.1	6068.5	7209.4
45°	5967.0	5813.7	5261.9	5124.0	5096.2	5113.4	5156.6	5625.9	5761.0	6799.4	7761.2
47.5°	6378.9	6258.2	5834.8	5702.6	5694.9	5808.9	6134.6	6535.0	6465.1	7436.4	8246.8
50°	6770.7	6661.5	6309.9	6342.5	6377.9	6533.1	7244.8	7470.0	7107.9	8014.1	8692.3
52.5°	7087.7	6921.1	6737.1	6920.1	7094.4	7344.5	8390.5	8309.1	7563.8	8473.9	9073.5
55°	7270.7	7195.0	7284.1	7468.0	7795.7	8201.8	9472.0	9007.4	7897.2	8893.4	9327.4
57.5°	7941.3	7792.8	7970.0	8129.0	8556.3	9124.3	10398.4	9527.6	8137.6	9153.0	9385.8
60°	8752.6	8632.9	8737.3	9001.7	9578.4	10246.0	11264.3	9952.0	8263.1	9319.7	9234.5
62.5°	10043.9	9885.9	9820.7	10116.7	10881.2	11610.1	11921.5	10246.0	8235.3	9246.0	8715.3
65°	11773.9	11610.1	11318.9	11587.2	12559.5	13073.9	12656.2	10308.3	8043.8	8649.2	7402.9
67.5°	13546.1	13427.3	13178.3	13630.4	14507.9	14673.6	13433.1	10157.0	7426.9	7013.0	5230.3
70°	14716.7	14665.9	14827.8	15827.9	16610.6	16562.7	14145.8	9343.7	5788.8	4312.6	2587.4
72.5°	13872.8	14116.1	15311.6	17125.0	18081.0	17690.1	13779.9	7174.9	3308.7	1659.1	748.1
73°	13173.5	13484.8	15094.1	17173.8	18196.9	17768.7	13472.4	6585.8	2820.2	1309.5	567.1
75°	9164.5	9546.8	12496.2	15994.6	17654.7	16929.5	11229.8	4031.0	1306.6	580.5	228.9
77.5°	4449.6	4732.2	6880.8	11556.5	13730.0	13227.1	6991.0	1502.0	590.1	363.1	105.4
80°	1661.1	1846.9	2986.8	5881.7	7934.6	8142.4	3075.0	568.1	392.8	292.2	53.6
82.5°	434.9	484.7	1101.6	2622.8	4066.4	4256.1	969.4	286.4	287.4	240.4	32.6
85°	138.9	159.0	343.9	1177.3	1915.9	1682.1	252.9	138.9	208.8	179.1	18.2
87.5°	17.2	22.0	109.2	276.8	422.4	234.7	39.3	41.2	89.1	99.6	10.5
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°	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1	3368.1
2.5°	3375.8	3371.0	3371.9	3347.0	3330.7	3298.2	3264.6	3249.3	3233.0	3226.3	3233.0
5°	3393.0	3384.4	3359.5	3282.8	3201.4	3096.0	2997.4	2922.7	2828.8	2802.9	2829.7
7.5°	3419.8	3402.6	3329.8	3173.6	2992.6	2791.4	2565.3	2400.6	2265.5	2178.3	2210.0
10°	3459.1	3426.5	3280.0	3014.6	2690.8	2334.5	2013.6	1763.6	1586.3	1513.5	1510.7
12.5°	3525.2	3463.9	3218.7	2807.7	2322.0	1846.9	1426.4	1155.3	1011.6	918.7	916.7
15°	3598.0	3507.9	3141.1	2559.6	1892.9	1322.9	918.7	712.7	619.8	590.1	586.3
17.5°	3687.1	3558.7	3040.5	2254.0	1443.6	876.5	599.7	540.3	536.4	533.6	533.6
20°	3799.2	3619.1	2911.2	1904.4	1024.0	585.3	509.6	513.5	515.4	511.5	512.5
22.5°	3929.4	3680.4	2756.9	1528.9	692.6	489.5	487.6	492.4	494.3	492.4	493.3
25°	4080.8	3751.3	2569.2	1135.2	500.0	464.6	469.4	476.1	480.9	480.9	480.9
27.5°	4268.5	3837.5	2343.1	792.2	432.0	438.7	452.1	464.6	471.3	473.2	473.2
30°	4512.8	3944.8	2072.0	543.1	392.8	404.2	429.2	453.1	465.6	467.5	468.4
32.5°	4821.3	4065.5	1757.8	401.4	359.2	367.8	394.7	434.9	458.8	462.7	462.7
35°	5174.8	4205.3	1419.7	349.6	335.3	338.2	359.2	405.2	447.4	457.9	458.8
37.5°	5561.8	4343.3	1079.6	326.7	315.2	315.2	330.5	369.8	419.6	452.1	456.0
40°	5922.9	4426.6	756.8	308.5	297.0	297.0	310.4	339.1	386.0	434.9	445.4
42.5°	6256.3	4455.3	526.9	291.2	279.7	282.6	294.1	317.1	352.5	401.4	411.0
45°	6599.2	4450.6	384.1	271.1	262.5	271.1	279.7	297.0	322.8	350.6	352.5
47.5°	6857.8	4410.3	304.6	251.9	246.2	257.7	265.3	276.8	291.2	289.3	289.3
50°	7100.2	4312.6	245.2	226.1	229.9	243.3	247.1	251.0	251.9	233.7	231.8
52.5°	7284.1	4160.3	196.4	198.3	213.6	227.0	223.2	217.5	207.9	185.8	182.0
55°	7345.4	3867.2	154.2	163.8	189.7	206.9	192.5	180.1	161.9	143.7	139.9
57.5°	7234.3	3488.8	125.5	127.4	160.0	174.3	158.1	143.7	123.6	108.2	105.4
60°	6998.7	3068.3	103.5	95.8	123.6	136.0	125.5	111.1	92.9	81.4	80.5
62.5°	6531.2	2619.9	85.3	74.7	93.9	104.4	97.7	87.2	71.8	64.2	63.2
65°	5548.3	2096.0	69.0	60.3	72.8	81.4	75.7	68.0	56.5	50.8	49.8
67.5°	3872.9	1416.8	56.5	49.8	57.5	64.2	59.4	55.6	45.0	44.1	45.0
70°	1868.0	683.0	46.9	40.2	45.0	49.8	47.9	45.0	43.1	49.8	57.5
72.5°	535.5	228.9	37.4	33.5	36.4	39.3	41.2	40.2	46.9	60.3	69.9
73°	411.9	184.9	35.4	31.6	34.5	38.3	40.2	39.3	47.9	61.3	69.9
75°	176.3	89.1	26.8	25.9	28.7	33.5	35.4	35.4	47.9	62.3	67.1
77.5°	79.5	47.9	17.2	20.1	24.9	26.8	29.7	29.7	38.3	47.9	47.9
80°	45.0	25.9	13.4	15.3	18.2	18.2	18.2	16.3	17.2	19.2	21.1
82.5°	28.7	17.2	10.5	12.5	11.5	9.6	7.7	7.7	6.7	7.7	9.6
85°	16.3	9.6	9.6	7.7	4.8	3.8	4.8	3.8	1.0	0.0	1.0
87.5°	9.6	5.7	2.9	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)