

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: P322391

Luminaire Tested: **GAN-SA7A-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322391
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-SA7A-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 19088 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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



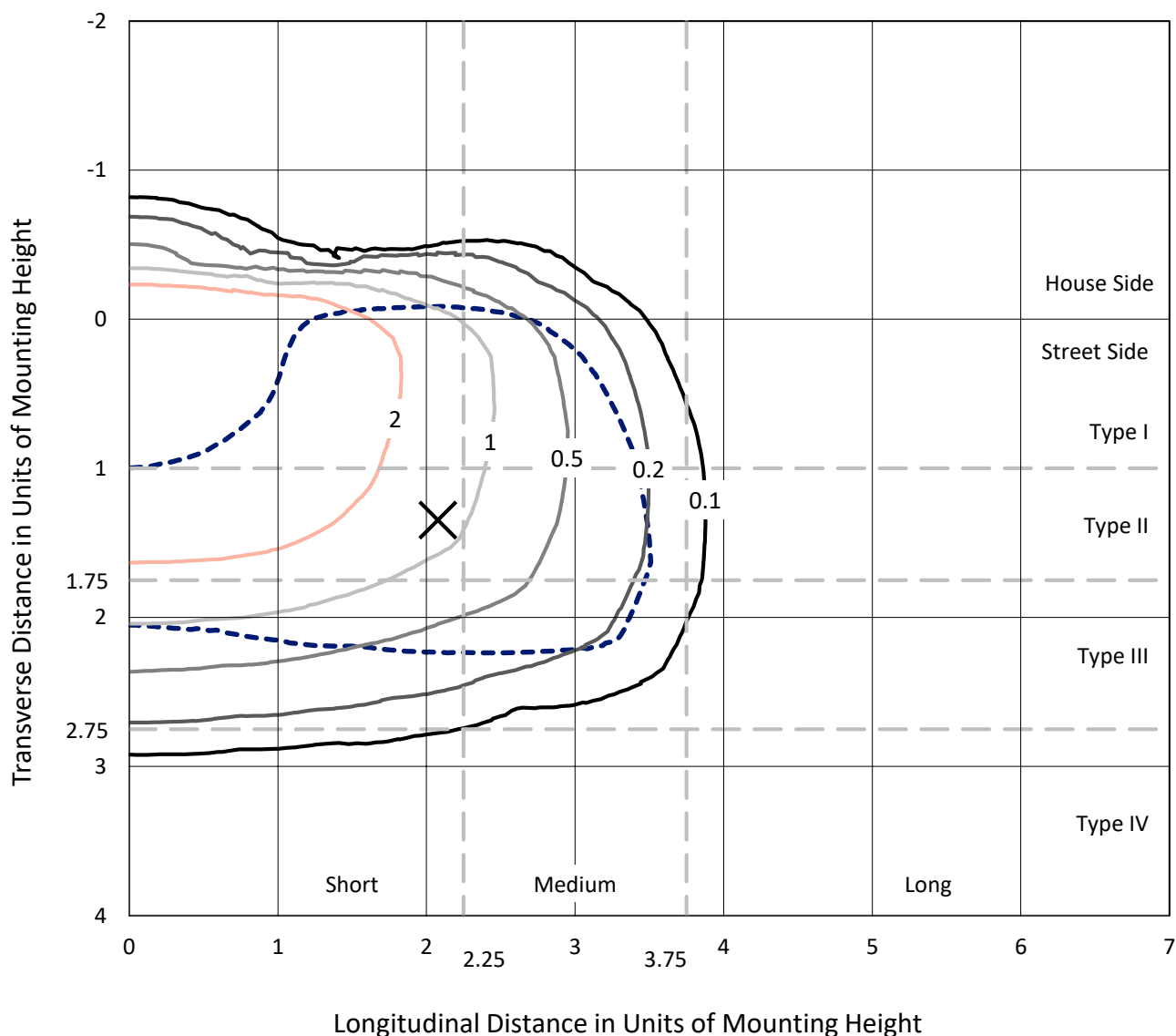
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

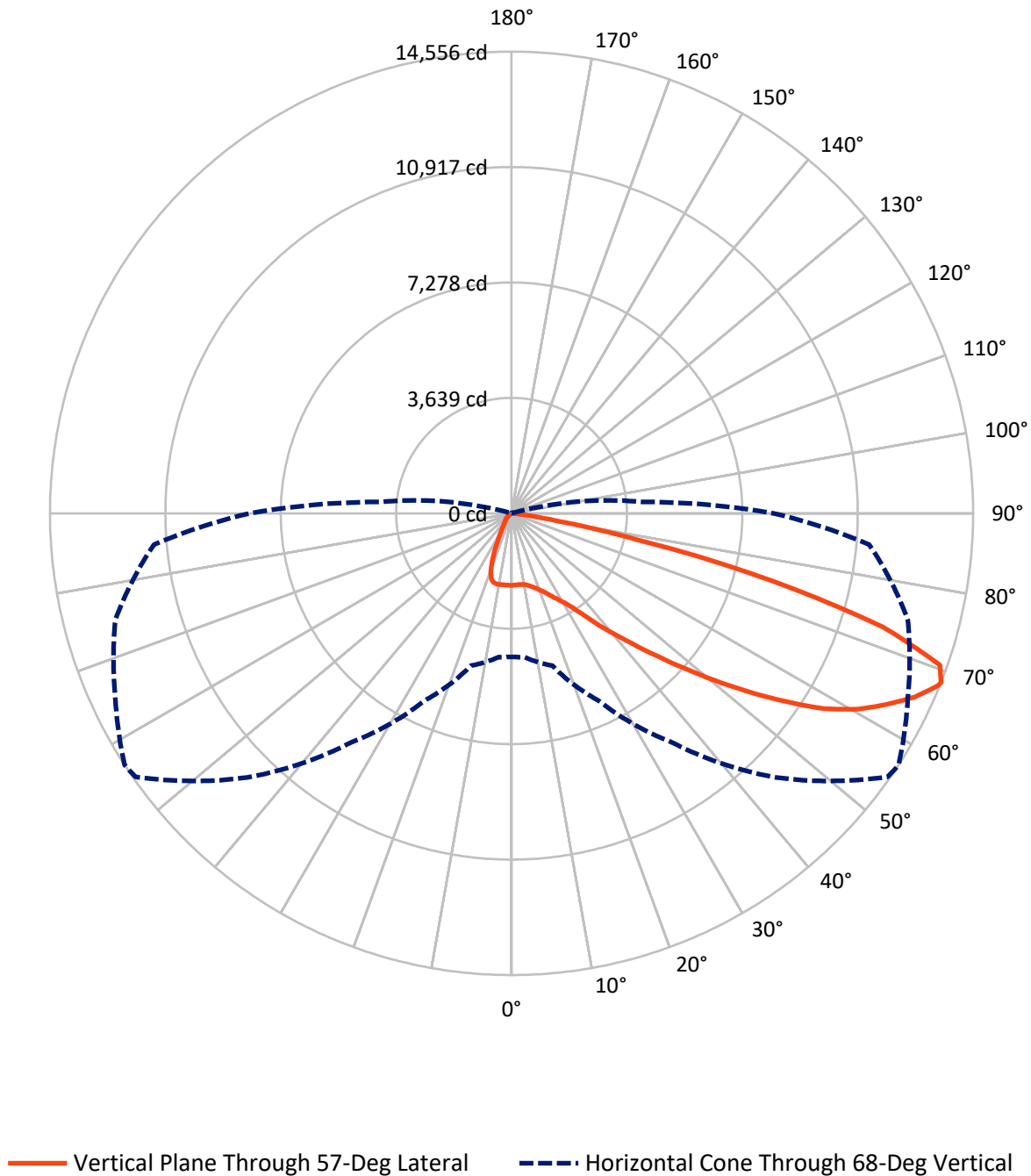


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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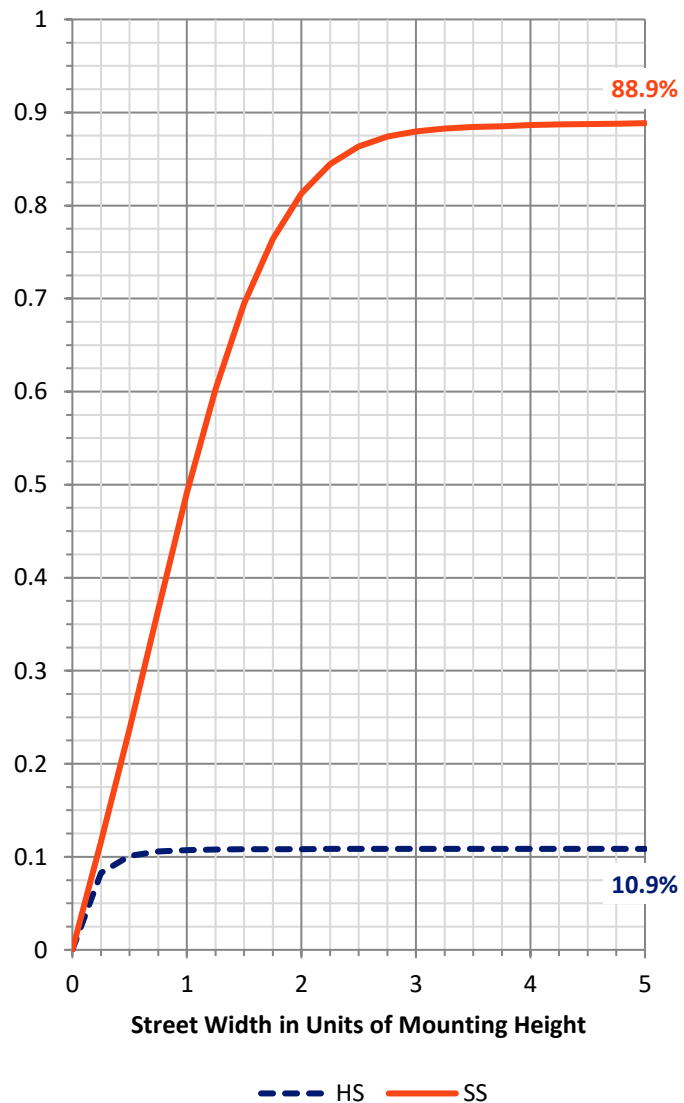
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2093.1	0.0	2093.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	16994.9	0.0	16994.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	19088.0	0.0	19088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.1
10°-20°	588.2	3.1
20°-30°	1014.7	5.3
30°-40°	1751.3	9.2
40°-50°	2995.7	15.7
50°-60°	4792.8	25.1
60°-70°	5537.6	29.0
70°-80°	2116.0	11.1
80°-90°	79.3	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°	19088.0	100.0
0°-180°	19088.0	100.0

Coefficient of Utilization



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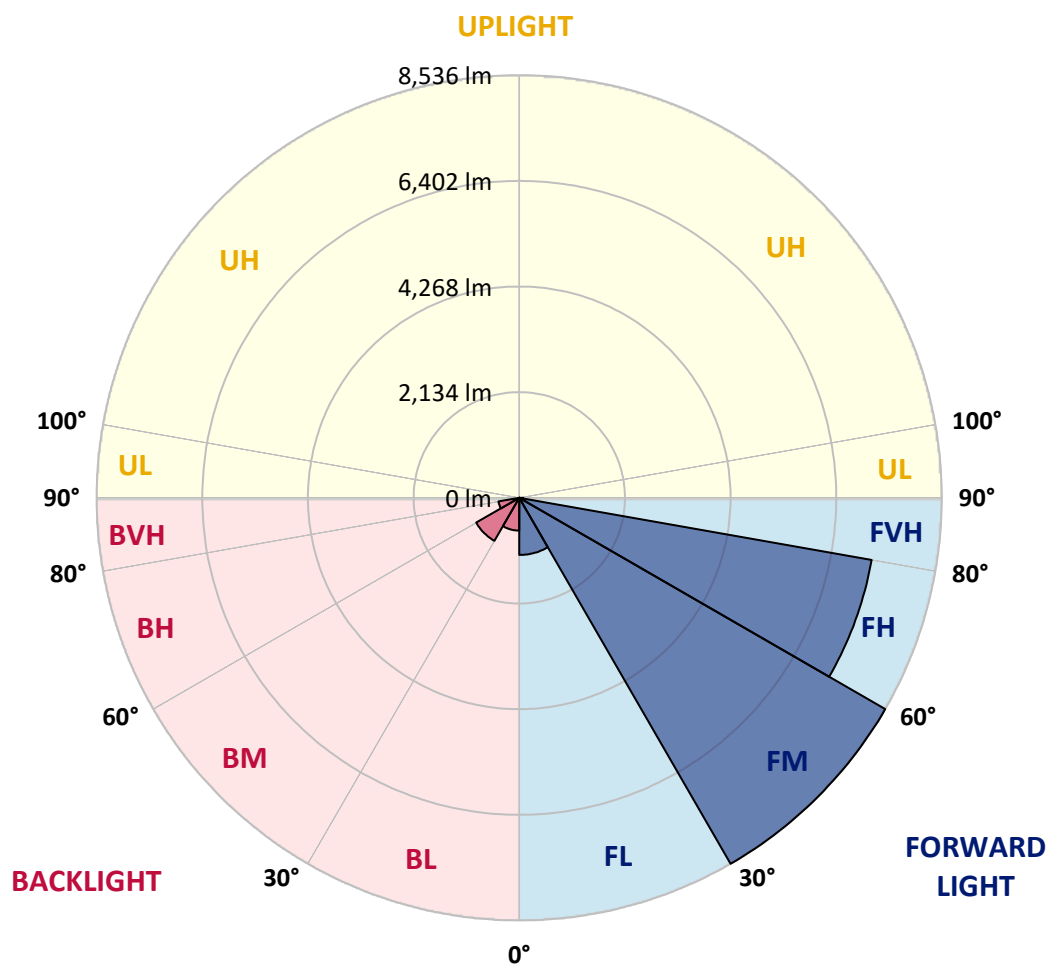
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1153.7	6.0			
FM	(30°-60°)	8536.0	44.7			
FH	(60°-80°)	7227.3	37.9			G3/7500
FVH	(80°-90°)	77.9	0.4			G1/100
BL	(0°-30°)	661.5	3.5	B2/1000		
BM	(30°-60°)	1003.9	5.3	B2/2500		
BH	(60°-80°)	426.3	2.2	B1/500		G1/500
BVH	(80°-90°)	1.4	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2
2.5°	2214.9	2224.8	2232.1	2236.6	2242.0	2253.7	2257.3	2262.7	2265.4	2265.4	2271.8
5°	2127.4	2138.2	2153.5	2166.2	2191.4	2223.9	2247.4	2256.4	2272.7	2287.1	2295.2
7.5°	2046.1	2058.8	2076.8	2106.6	2149.9	2202.3	2251.0	2263.6	2295.2	2325.9	2341.3
10°	1993.8	2003.7	2027.2	2069.6	2126.5	2199.6	2268.2	2283.5	2337.7	2389.1	2418.0
12.5°	1975.7	1984.8	2009.1	2057.0	2127.4	2213.1	2307.9	2330.4	2409.9	2484.8	2525.4
15°	2001.9	2003.7	2029.9	2075.0	2144.5	2246.5	2373.8	2400.8	2501.0	2598.5	2649.0
17.5°	2103.0	2094.9	2108.4	2128.3	2183.3	2290.7	2443.3	2483.9	2617.5	2732.1	2779.9
20°	2355.7	2355.7	2325.0	2270.9	2271.8	2359.3	2537.1	2583.2	2746.5	2879.2	2922.5
22.5°	2788.0	2779.9	2718.5	2585.9	2464.0	2477.6	2651.7	2711.3	2901.8	3043.5	3057.9
25°	3307.9	3298.0	3203.2	3016.4	2805.2	2668.9	2807.0	2875.6	3086.8	3212.2	3182.5
27.5°	3858.5	3850.4	3756.5	3524.5	3224.0	2974.0	2992.0	3057.0	3275.4	3399.1	3304.3
30°	4391.9	4394.6	4301.6	4063.4	3723.1	3363.0	3226.7	3264.6	3458.6	3584.1	3448.7
32.5°	4899.1	4902.8	4822.4	4556.2	4238.5	3815.2	3551.6	3541.7	3671.7	3795.3	3640.1
35°	5351.3	5360.4	5305.3	5098.6	4762.0	4318.8	3973.1	3949.6	3974.0	4113.9	3933.4
37.5°	5787.3	5792.7	5751.2	5577.0	5295.4	4872.1	4505.6	4472.2	4419.9	4527.3	4320.6
40°	6264.7	6251.2	6203.4	6045.4	5803.5	5483.1	5077.9	5020.1	4928.9	5024.6	4829.7
42.5°	6708.8	6693.5	6701.6	6522.9	6318.9	6111.3	5744.9	5645.6	5592.3	5702.4	5454.2
45°	7263.9	7255.8	7282.8	7127.6	6962.4	6811.7	6509.3	6401.0	6377.6	6506.6	6209.7
47.5°	7811.7	7831.6	7915.5	7849.6	7782.9	7650.2	7318.9	7270.2	7284.6	7440.8	7006.6
50°	8268.4	8291.9	8522.1	8597.9	8694.5	8616.8	8284.7	8254.9	8311.8	8452.6	7864.1
52.5°	8598.8	8646.6	8932.7	9282.0	9634.0	9686.4	9355.1	9328.1	9404.8	9426.4	8526.6
55°	8828.0	8870.5	9194.5	9833.5	10550.1	10775.8	10570.0	10465.3	10450.9	10236.9	9223.4
57.5°	8868.6	8864.1	9329.9	10190.0	11268.6	11850.7	11720.8	11617.9	11321.8	10986.1	10022.1
60°	8639.4	8665.6	9206.2	10313.7	11719.9	12664.0	12673.9	12540.3	12079.1	11714.5	10796.5
62.5°	7933.6	8040.1	8586.1	9989.6	11714.5	12991.6	13372.5	13270.5	12719.0	12311.1	11581.8
65°	6789.1	6827.0	7347.8	8879.5	10922.9	12854.4	14001.6	13963.7	13295.8	12890.5	11985.2
67.5°	4957.8	4875.7	5422.6	6992.2	9247.7	12054.7	14452.8	14500.7	13740.7	13009.6	11555.6
68°	4524.6	4549.0	4975.0	6525.6	8809.1	11772.2	14482.6	14555.7	13784.9	12932.0	11320.9
70°	2696.9	2743.8	3123.8	4493.0	6701.6	10173.8	14161.3	14328.3	13521.4	12131.4	9792.0
72.5°	688.7	744.6	1103.8	2010.9	3827.8	7168.2	11954.5	12237.0	11739.7	9841.6	6610.4
75°	283.4	297.8	394.4	662.5	1426.1	3229.4	7879.4	8484.2	8138.5	5892.0	2987.5
77.5°	195.9	205.8	253.6	367.3	617.4	1094.8	3863.0	4299.8	3873.8	2010.9	651.7
80°	140.8	148.9	181.4	244.6	354.7	390.8	1259.1	1455.8	1156.2	441.4	161.6
82.5°	83.9	90.3	135.4	174.2	215.7	186.8	313.2	355.6	334.9	219.3	72.2
85°	41.5	48.7	91.2	124.6	116.4	78.5	95.7	106.5	131.8	133.6	38.8
87.5°	2.7	5.4	53.3	74.9	32.5	18.1	28.0	34.3	46.9	65.9	16.2
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°	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2	2268.2
2.5°	2274.5	2275.4	2269.1	2266.4	2268.2	2257.3	2252.8	2254.6	2254.6	2257.3	2252.8
5°	2297.0	2297.0	2286.2	2271.8	2263.6	2242.9	2229.3	2225.7	2223.0	2221.2	2217.6
7.5°	2345.8	2340.4	2321.4	2289.8	2262.7	2217.6	2183.3	2165.3	2156.2	2152.6	2149.9
10°	2424.3	2414.4	2382.8	2324.1	2261.8	2181.5	2106.6	2053.3	2009.1	1991.1	1980.2
12.5°	2529.9	2515.5	2462.2	2364.7	2255.5	2107.5	1945.0	1788.9	1643.6	1584.0	1554.2
15°	2651.7	2631.0	2547.1	2399.0	2218.5	1940.5	1587.6	1314.1	1112.9	1037.1	1004.6
17.5°	2775.4	2748.3	2621.1	2420.7	2107.5	1594.8	1113.8	841.2	706.7	670.6	658.0
20°	2900.0	2860.2	2685.1	2404.4	1856.6	1149.9	734.7	614.6	575.8	565.0	561.4
22.5°	3018.2	2956.8	2742.9	2341.3	1470.3	771.7	581.3	543.3	530.7	524.4	522.6
25°	3121.1	3035.3	2793.5	2146.3	1040.7	583.1	523.5	510.9	494.6	482.9	483.8
27.5°	3217.7	3113.9	2824.1	1825.0	694.1	498.2	484.7	467.5	437.7	420.6	420.6
30°	3334.1	3218.6	2846.7	1404.4	510.9	440.5	429.6	403.4	362.8	340.3	340.3
32.5°	3509.2	3377.4	2832.3	985.6	423.3	387.2	361.9	325.8	281.6	259.9	259.0
35°	3777.3	3622.9	2729.4	646.2	373.7	336.7	296.0	251.8	213.0	195.0	194.1
37.5°	4138.3	3951.5	2498.3	462.1	334.9	289.7	241.0	192.2	163.4	151.6	150.7
40°	4606.7	4333.2	2168.0	374.6	298.8	244.6	185.9	148.9	129.1	120.0	120.9
42.5°	5169.0	4742.1	1771.7	323.1	263.6	201.3	145.3	117.3	104.7	98.4	96.6
45°	5793.6	5145.5	1356.6	287.9	228.4	162.5	113.7	93.0	83.0	79.4	79.4
47.5°	6480.5	5538.2	992.8	257.2	190.4	125.5	91.2	75.8	67.7	65.0	64.1
50°	7104.1	5810.7	715.7	224.7	156.1	99.3	74.0	63.2	57.8	54.2	54.2
52.5°	7624.0	5896.5	527.1	189.5	126.4	79.4	61.4	54.2	48.7	46.0	46.0
55°	8081.6	5861.3	391.7	156.1	102.0	65.0	52.3	46.0	41.5	38.8	38.8
57.5°	8520.3	5747.6	292.4	127.3	82.1	52.3	44.2	38.8	34.3	32.5	32.5
60°	8878.6	5558.0	217.5	102.9	65.9	42.4	37.0	31.6	28.0	25.3	25.3
62.5°	9169.2	5348.6	159.8	84.8	52.3	33.4	28.9	26.2	20.8	18.1	18.1
65°	9171.0	5001.1	120.0	70.4	40.6	26.2	21.7	20.8	13.5	10.8	9.9
67.5°	8507.6	4311.6	92.1	60.5	31.6	19.9	16.2	17.1	7.2	4.5	3.6
68°	8266.6	4136.5	86.6	59.6	29.8	19.0	15.3	17.1	6.3	3.6	2.7
70°	6969.6	3290.8	69.5	57.8	26.2	14.4	12.6	17.1	5.4	2.7	1.8
72.5°	4457.8	1909.8	51.4	46.0	19.9	10.8	8.1	15.3	5.4	1.8	0.9
75°	1897.2	592.1	35.2	32.5	11.7	8.1	5.4	9.9	3.6	0.9	0.0
77.5°	399.8	133.6	20.8	19.9	8.1	5.4	3.6	2.7	0.9	0.0	0.0
80°	102.9	38.8	10.8	9.9	4.5	2.7	1.8	0.0	0.0	0.0	0.0
82.5°	32.5	15.3	6.3	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	2.7	0.9	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)