

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: P322379

Luminaire Tested: **GAN-SA5D-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322379
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-SA5D-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA 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: 20774 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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



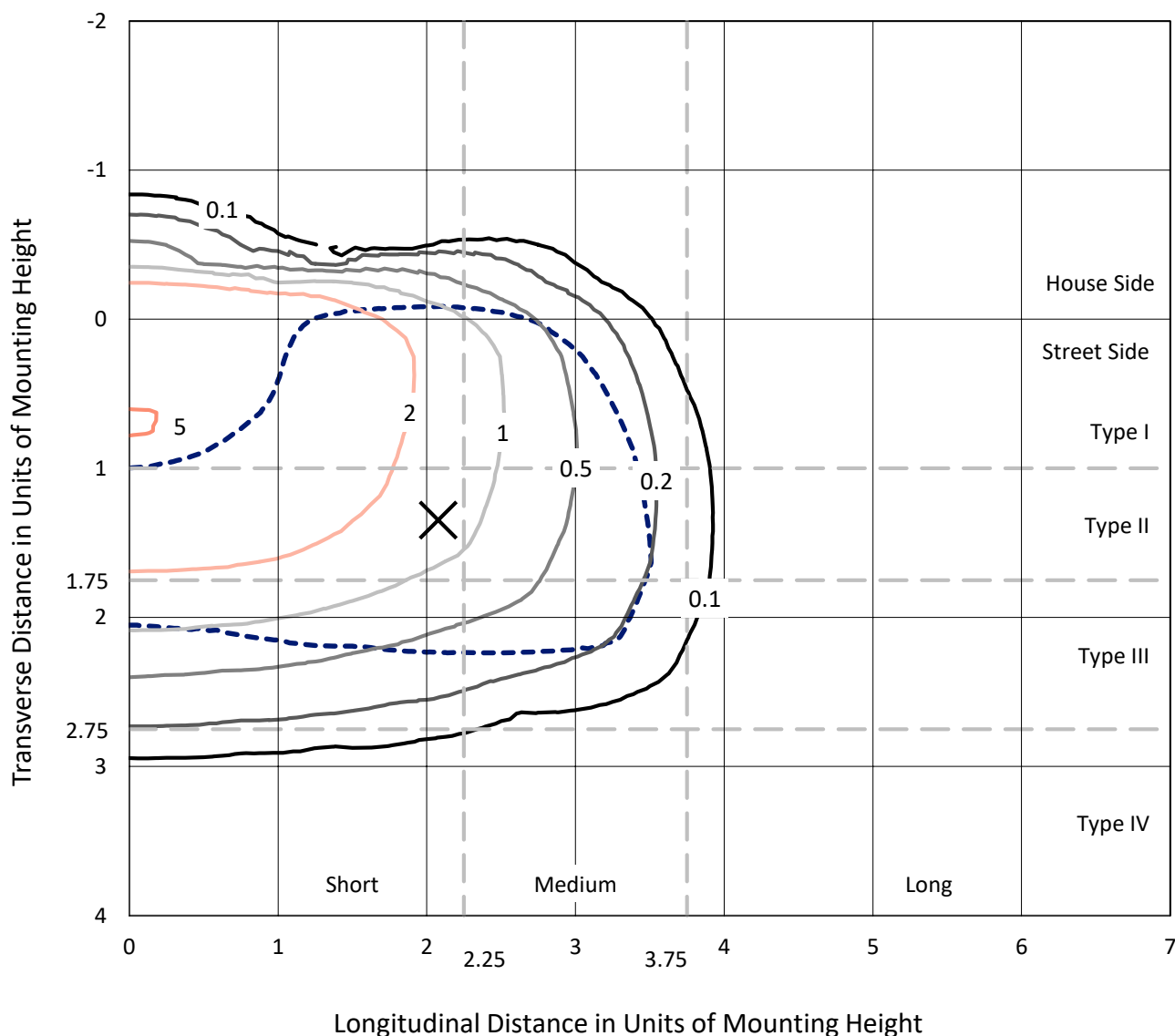
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

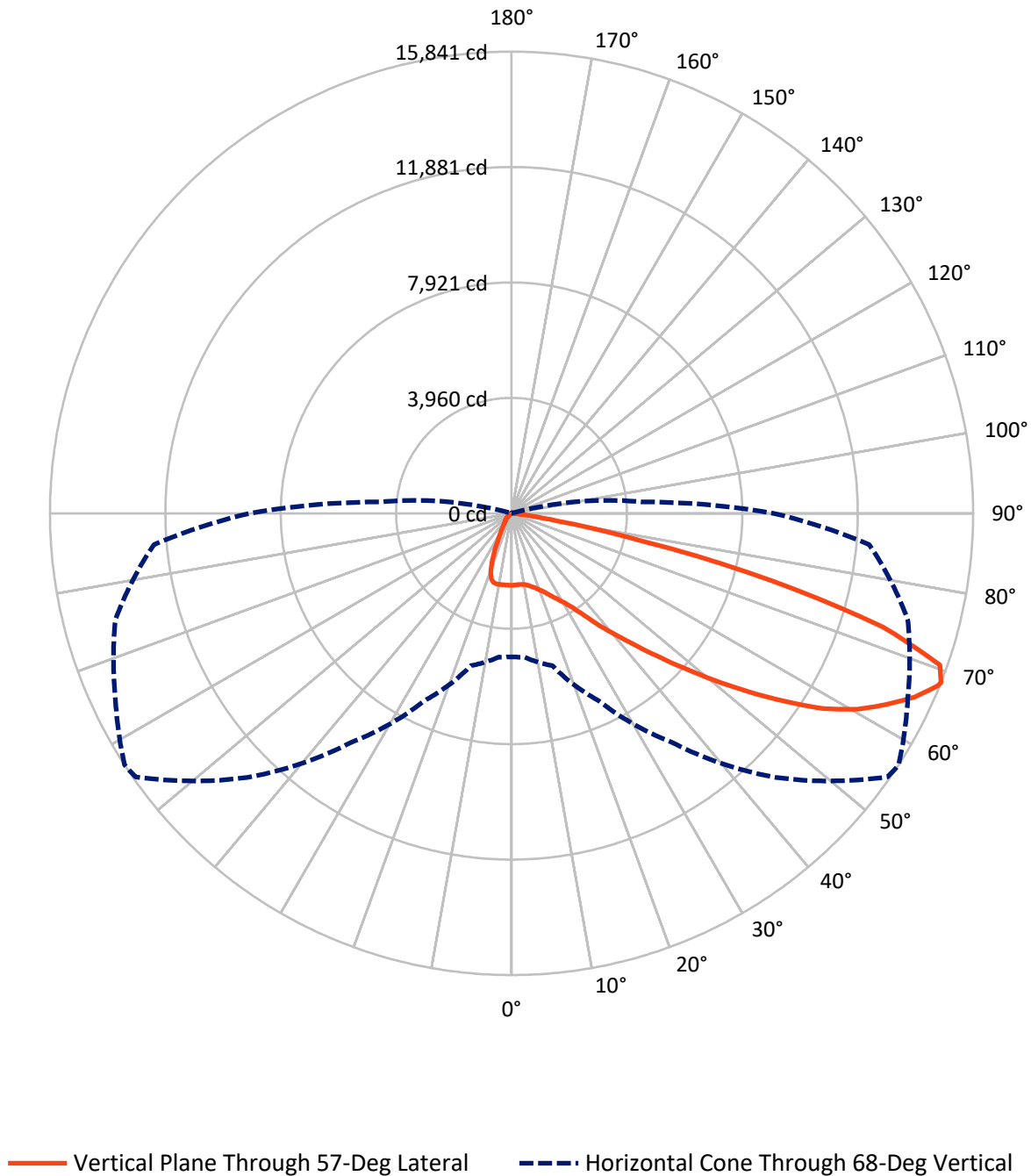


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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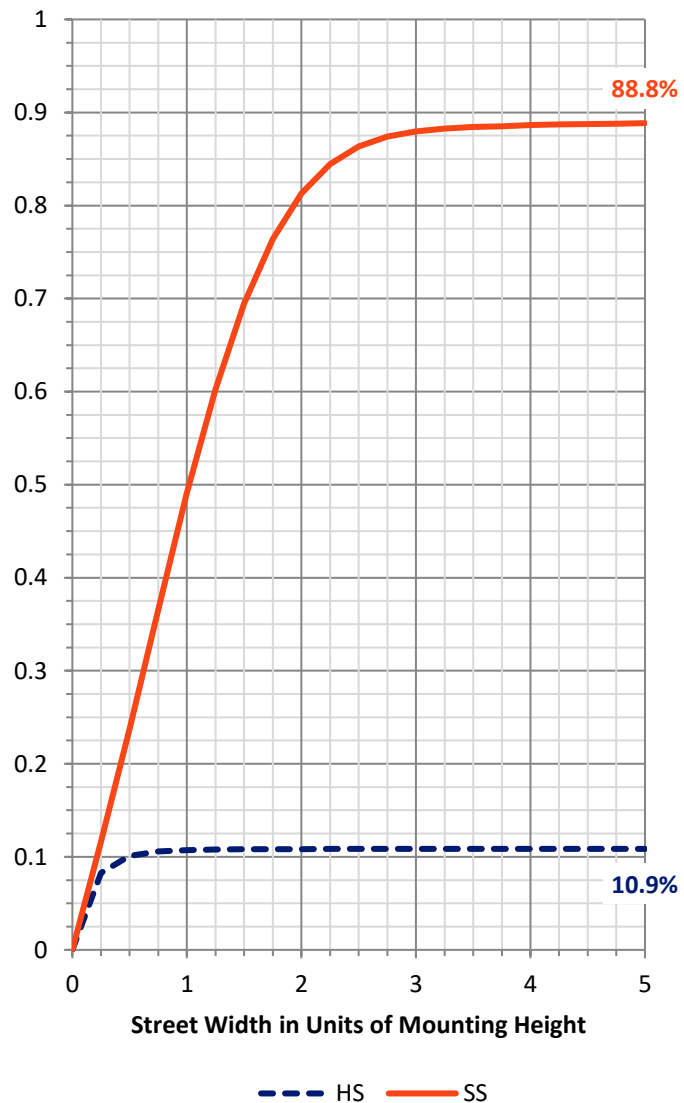
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2278.0	0.0	2278.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	18496.0	0.0	18496.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	20774.0	0.0	20774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	1.1
10°-20°	640.2	3.1
20°-30°	1104.3	5.3
30°-40°	1906.0	9.2
40°-50°	3260.3	15.7
50°-60°	5216.2	25.1
60°-70°	6026.7	29.0
70°-80°	2302.9	11.1
80°-90°	86.3	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°	20774.0	100.0
0°-180°	20774.0	100.0

Coefficient of Utilization



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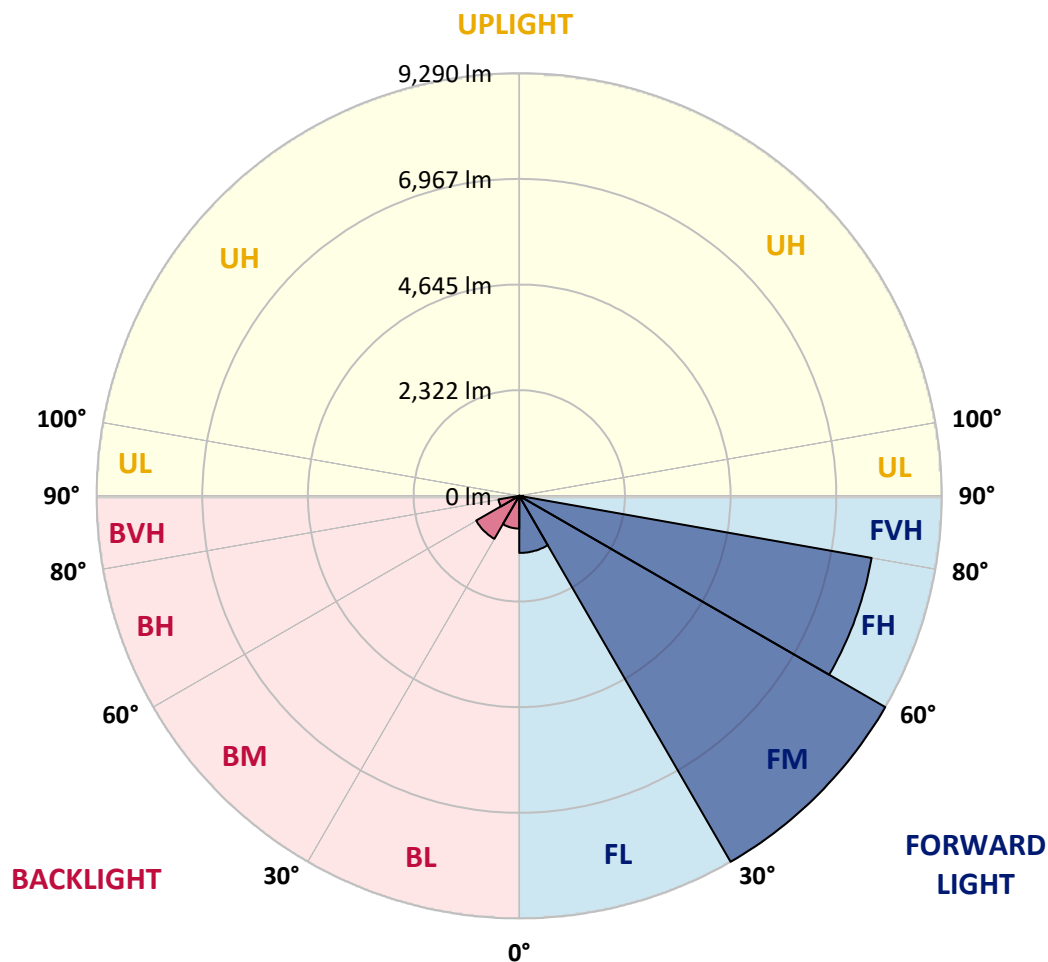
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1255.6	6.0			
FM	(30°-60°)	9290.0	44.7			
FH	(60°-80°)	7865.7	37.9			G4/12000
FVH	(80°-90°)	84.8	0.4			G1/100
BL	(0°-30°)	719.9	3.5	B2/1000		
BM	(30°-60°)	1092.6	5.3	B2/2500		
BH	(60°-80°)	463.9	2.2	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5
2.5°	2410.5	2421.3	2429.2	2434.1	2440.0	2452.8	2456.7	2462.6	2465.6	2465.6	2472.4
5°	2315.3	2327.0	2343.7	2357.5	2385.0	2420.4	2445.9	2455.7	2473.4	2489.1	2498.0
7.5°	2226.9	2240.6	2260.3	2292.7	2339.8	2396.8	2449.8	2463.6	2498.0	2531.4	2548.1
10°	2169.9	2180.7	2206.2	2252.4	2314.3	2393.8	2468.5	2485.2	2544.1	2600.1	2631.6
12.5°	2150.2	2160.1	2186.6	2238.6	2315.3	2408.6	2511.7	2536.3	2622.7	2704.2	2748.5
15°	2178.7	2180.7	2209.2	2258.3	2333.9	2444.9	2583.4	2612.9	2721.9	2828.0	2883.0
17.5°	2288.7	2279.9	2294.6	2316.2	2376.2	2493.1	2659.1	2703.3	2848.6	2973.4	3025.5
20°	2563.8	2563.8	2530.4	2471.4	2472.4	2567.7	2761.2	2811.3	2989.1	3133.5	3180.7
22.5°	3034.3	3025.5	2958.7	2814.3	2681.7	2696.4	2886.0	2950.8	3158.1	3312.3	3328.0
25°	3600.1	3589.3	3486.2	3282.8	3053.0	2904.6	3054.9	3129.6	3359.4	3496.0	3463.6
27.5°	4199.3	4190.5	4088.3	3835.8	3508.7	3236.7	3256.3	3327.0	3564.7	3699.3	3596.2
30°	4779.8	4782.8	4681.6	4422.3	4052.0	3660.0	3511.7	3552.9	3764.1	3900.7	3753.3
32.5°	5331.9	5335.8	5248.4	4958.6	4612.8	4152.1	3865.3	3854.5	3996.0	4130.5	3961.6
35°	5824.0	5833.8	5773.9	5549.0	5182.6	4700.3	4324.0	4298.5	4325.0	4477.3	4280.8
37.5°	6298.5	6304.3	6259.2	6069.6	5763.1	5302.4	4903.6	4867.3	4810.3	4927.2	4702.2
40°	6818.1	6803.4	6751.3	6579.4	6316.1	5967.4	5526.4	5463.5	5364.3	5468.4	5256.2
42.5°	7301.4	7284.7	7293.5	7099.0	6877.0	6651.1	6252.3	6144.2	6086.3	6206.1	5936.0
45°	7905.5	7896.6	7926.1	7757.2	7577.4	7413.4	7084.3	6966.4	6940.9	7081.3	6758.2
47.5°	8501.7	8523.3	8614.7	8543.0	8470.3	8325.9	7965.4	7912.4	7928.1	8098.0	7625.5
50°	8998.8	9024.3	9274.8	9357.3	9462.4	9377.9	9016.5	8984.0	9045.9	9199.2	8558.7
52.5°	9358.3	9410.4	9721.7	10101.9	10485.0	10542.0	10181.5	10152.0	10235.5	10259.1	9279.7
55°	9607.8	9654.0	10006.6	10702.1	11482.0	11727.6	11503.6	11389.7	11374.0	11141.2	10038.0
57.5°	9652.0	9647.1	10153.9	11090.1	12263.9	12897.5	12756.0	12644.1	12321.9	11956.5	10907.4
60°	9402.5	9431.0	10019.4	11224.6	12755.1	13782.5	13793.3	13648.0	13146.0	12749.2	11750.2
62.5°	8634.3	8750.3	9344.5	10872.0	12749.2	14139.1	14553.6	14442.6	13842.5	13398.5	12604.8
65°	7388.8	7430.1	7996.8	9663.8	11887.7	13989.8	15238.3	15197.0	14470.1	14029.1	13043.9
67.5°	5395.7	5306.3	5901.6	7609.8	10064.6	13119.5	15729.4	15781.5	14954.4	14158.8	12576.3
68°	4924.2	4950.7	5414.4	7102.0	9587.2	12812.0	15761.9	15841.4	15002.5	14074.3	12320.9
70°	2935.1	2986.2	3399.7	4889.8	7293.5	11072.4	15412.2	15593.9	14715.7	13203.0	10656.9
72.5°	749.5	810.4	1201.3	2188.5	4165.9	7801.4	13010.5	13317.9	12776.7	10710.9	7194.3
75°	308.4	324.2	429.3	721.0	1552.0	3514.6	8575.4	9233.5	8857.3	6412.4	3251.4
77.5°	213.2	224.0	276.0	399.8	671.9	1191.5	4204.2	4679.6	4216.0	2188.5	709.2
80°	153.2	162.1	197.4	266.2	386.0	425.3	1370.3	1584.4	1258.3	480.3	175.8
82.5°	91.4	98.2	147.3	189.6	234.8	203.3	340.9	387.0	364.4	238.7	78.6
85°	45.2	53.0	99.2	135.6	126.7	85.5	104.1	115.9	143.4	145.4	42.2
87.5°	2.9	5.9	58.0	81.5	35.4	19.6	30.5	37.3	51.1	71.7	17.7
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°	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5	2468.5
2.5°	2475.4	2476.4	2469.5	2466.5	2468.5	2456.7	2451.8	2453.8	2453.8	2456.7	2451.8
5°	2499.9	2499.9	2488.1	2472.4	2463.6	2441.0	2426.3	2422.3	2419.4	2417.4	2413.5
7.5°	2553.0	2547.1	2526.5	2492.1	2462.6	2413.5	2376.2	2356.5	2346.7	2342.8	2339.8
10°	2638.4	2627.6	2593.2	2529.4	2461.6	2374.2	2292.7	2234.7	2186.6	2166.9	2155.1
12.5°	2753.4	2737.6	2679.7	2573.6	2454.7	2293.7	2116.8	1946.9	1788.8	1723.9	1691.5
15°	2886.0	2863.4	2772.0	2610.9	2414.5	2111.9	1727.9	1430.2	1211.2	1128.7	1093.3
17.5°	3020.5	2991.1	2852.6	2634.5	2293.7	1735.7	1212.1	915.5	769.1	729.8	716.1
20°	3156.1	3112.9	2922.3	2616.8	2020.6	1251.4	799.6	668.9	626.7	614.9	611.0
22.5°	3284.8	3218.0	2985.2	2548.1	1600.2	839.9	632.6	591.3	577.6	570.7	568.7
25°	3396.8	3303.4	3040.2	2335.9	1132.6	634.6	569.7	556.0	538.3	525.5	526.5
27.5°	3501.9	3388.9	3073.6	1986.2	755.4	542.2	527.5	508.8	476.4	457.7	457.7
30°	3628.6	3502.9	3098.1	1528.4	556.0	479.4	467.6	439.1	394.9	370.3	370.3
32.5°	3819.1	3675.7	3082.4	1072.7	460.7	421.4	393.9	354.6	306.5	282.9	281.9
35°	4110.9	3942.9	2970.4	703.3	406.7	366.4	322.2	274.1	231.8	212.2	211.2
37.5°	4503.8	4300.5	2719.0	502.9	364.4	315.3	262.3	209.2	177.8	165.0	164.0
40°	5013.6	4716.0	2359.5	407.7	325.1	266.2	202.4	162.1	140.5	130.6	131.6
42.5°	5625.6	5161.0	1928.2	351.7	286.8	219.1	158.1	127.7	113.9	107.1	105.1
45°	6305.3	5600.0	1476.4	313.4	248.5	176.8	123.8	101.2	90.4	86.4	86.4
47.5°	7052.9	6027.3	1080.5	280.0	207.3	136.5	99.2	82.5	73.7	70.7	69.7
50°	7731.6	6324.0	779.0	244.6	169.9	108.1	80.5	68.8	62.9	58.9	58.9
52.5°	8297.4	6417.3	573.7	206.3	137.5	86.4	66.8	58.9	53.0	50.1	50.1
55°	8795.4	6379.0	426.3	169.9	111.0	70.7	57.0	50.1	45.2	42.2	42.2
57.5°	9272.8	6255.2	318.3	138.5	89.4	57.0	48.1	42.2	37.3	35.4	35.4
60°	9662.8	6049.0	236.7	112.0	71.7	46.2	40.3	34.4	30.5	27.5	27.5
62.5°	9979.1	5821.1	173.9	92.3	57.0	36.3	31.4	28.5	22.6	19.6	19.6
65°	9981.1	5442.9	130.6	76.6	44.2	28.5	23.6	22.6	14.7	11.8	10.8
67.5°	9259.1	4692.4	100.2	65.8	34.4	21.6	17.7	18.7	7.9	4.9	3.9
68°	8996.8	4501.8	94.3	64.8	32.4	20.6	16.7	18.7	6.9	3.9	2.9
70°	7585.3	3581.4	75.6	62.9	28.5	15.7	13.8	18.7	5.9	2.9	2.0
72.5°	4851.5	2078.5	56.0	50.1	21.6	11.8	8.8	16.7	5.9	2.0	1.0
75°	2064.8	644.4	38.3	35.4	12.8	8.8	5.9	10.8	3.9	1.0	0.0
77.5°	435.2	145.4	22.6	21.6	8.8	5.9	3.9	2.9	1.0	0.0	0.0
80°	112.0	42.2	11.8	10.8	4.9	2.9	2.0	0.0	0.0	0.0	0.0
82.5°	35.4	16.7	6.9	4.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.7	9.8	3.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	2.9	1.0	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)