

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: P322658

Luminaire Tested: **GAN-SA4D-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322658
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-SA4D-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA 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: 22227 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

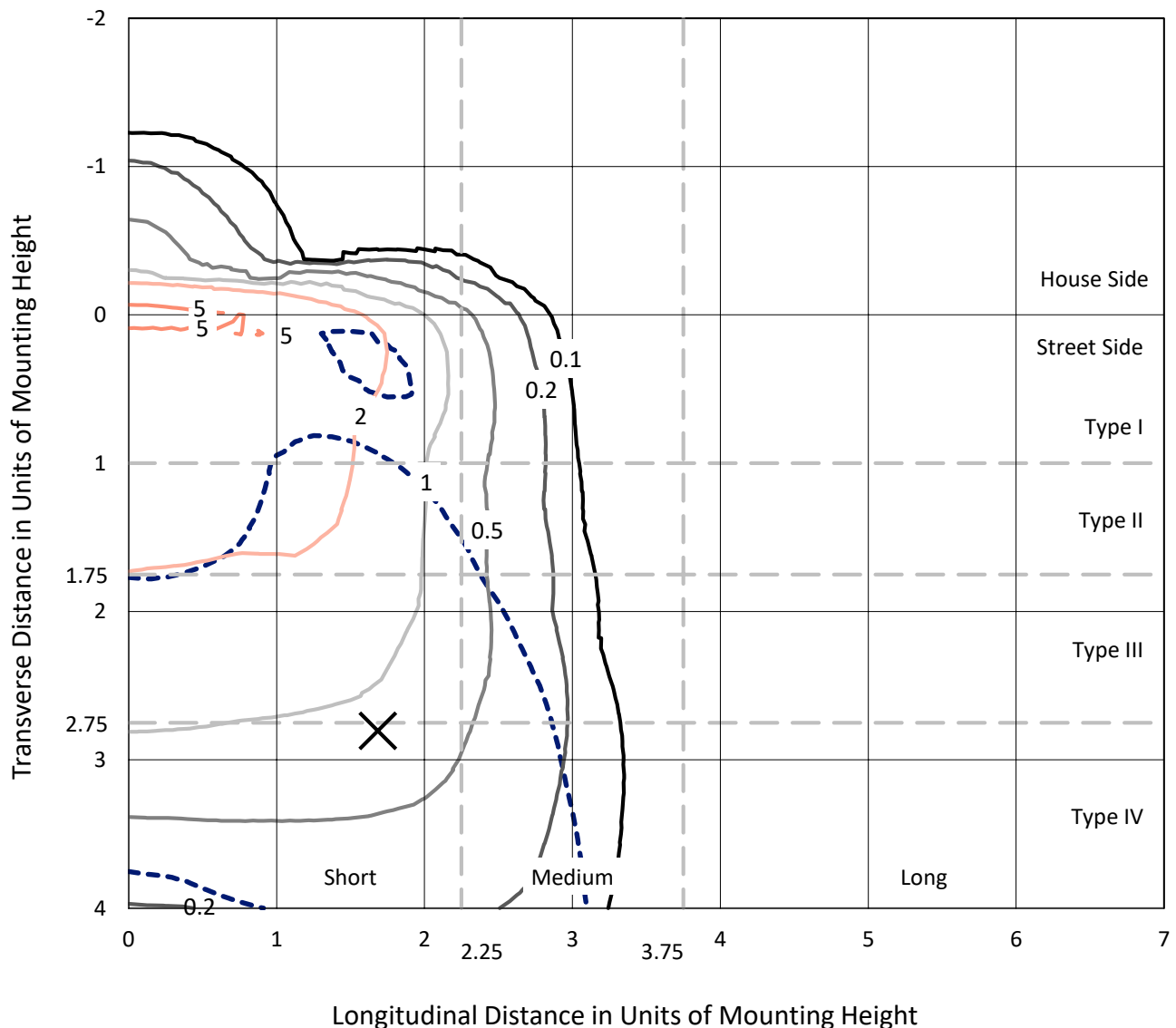
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

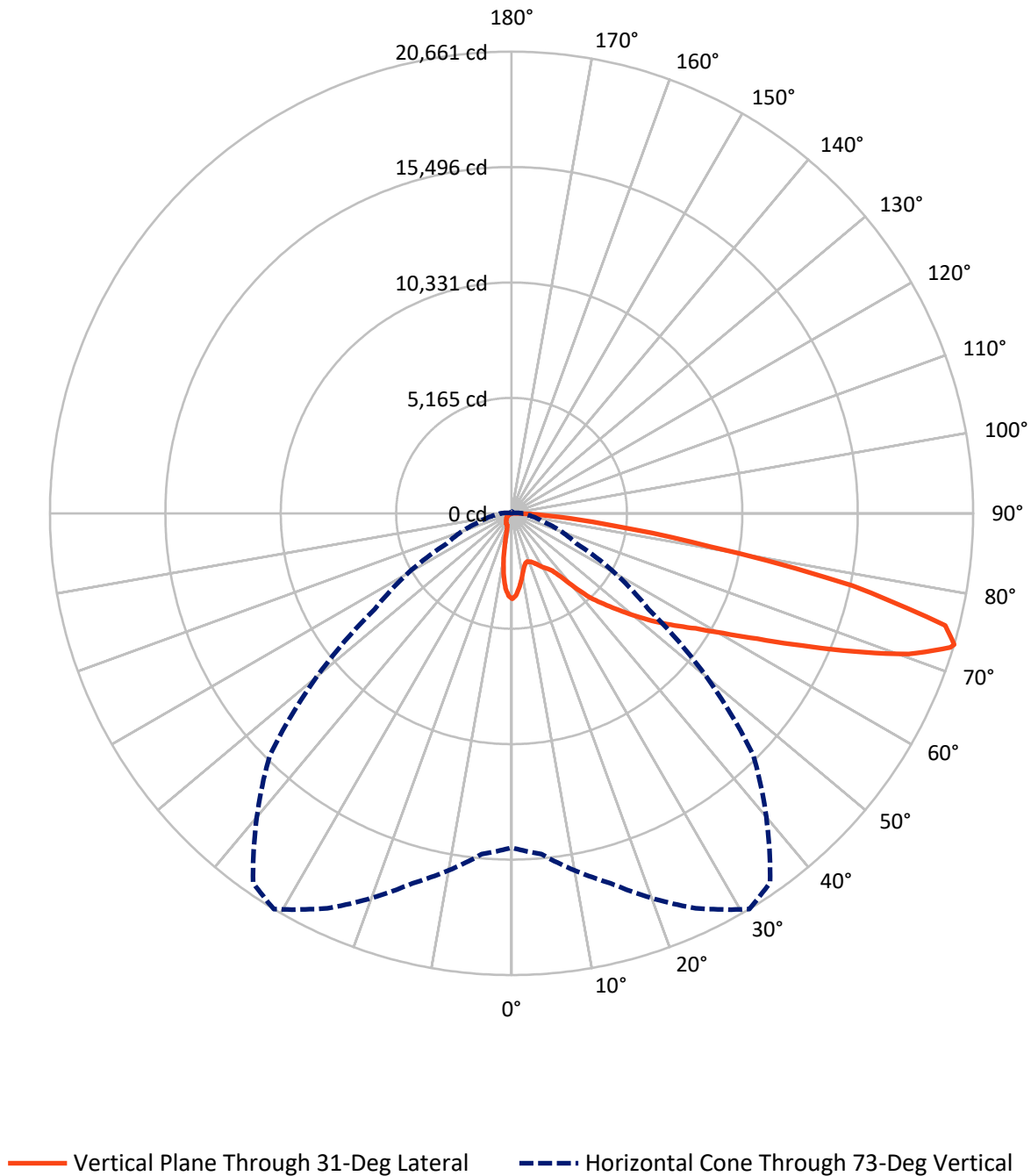
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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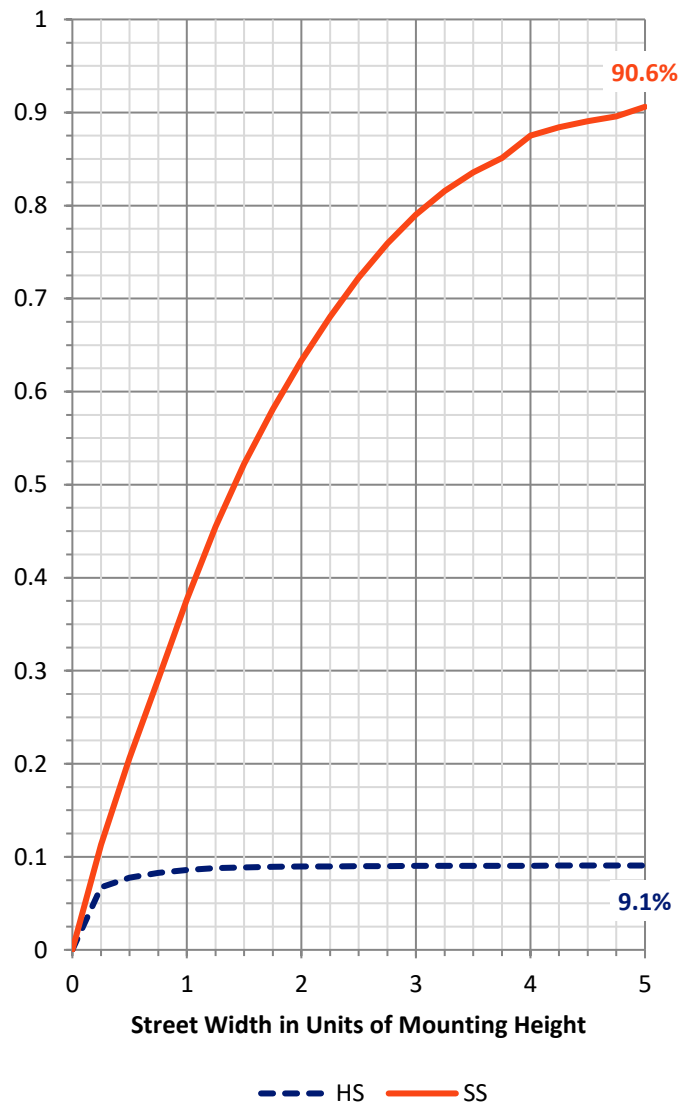
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2026.1	0.0	2026.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	20200.9	0.0	20200.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	22227.0	0.0	22227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	1.4
10°-20°	688.5	3.1
20°-30°	1031.5	4.6
30°-40°	1641.2	7.4
40°-50°	2930.7	13.2
50°-60°	4547.6	20.5
60°-70°	6045.4	27.2
70°-80°	4547.3	20.5
80°-90°	477.8	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°	22227.0	100.0
0°-180°	22227.0	100.0

Coefficient of Utilization



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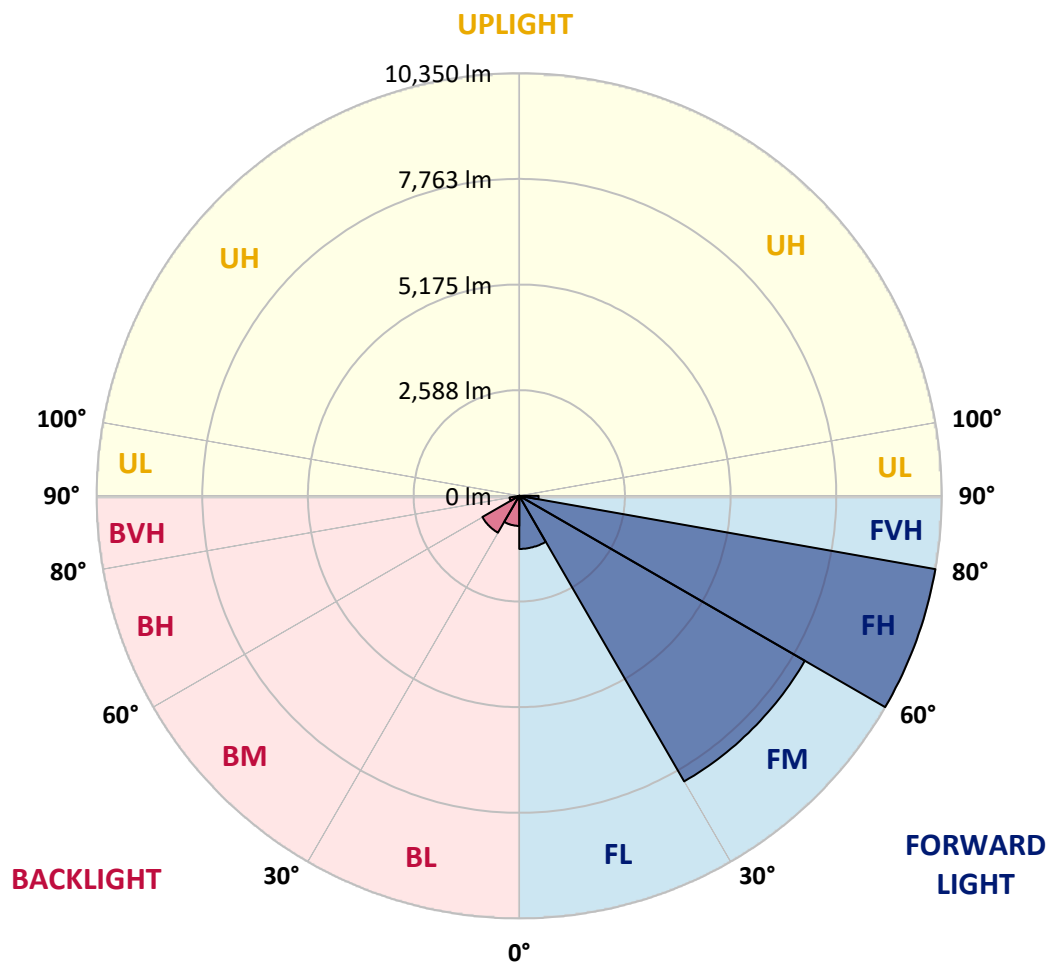
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1300.3	5.9			
FM	(30°-60°)	8076.5	36.3			
FH	(60°-80°)	10350.3	46.6			G4/12000
FVH	(80°-90°)	473.8	2.1			G3/500
BL	(0°-30°)	736.8	3.3	B2/1000		
BM	(30°-60°)	1042.9	4.7	B2/2500		
BH	(60°-80°)	242.4	1.1	B1/500		G1/500
BVH	(80°-90°)	4.0	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°	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2
2.5°	3624.1	3639.3	3655.6	3658.9	3686.1	3687.2	3726.3	3755.7	3785.0	3813.3	3823.1
5°	3252.1	3277.1	3306.5	3335.8	3393.5	3416.3	3512.0	3609.9	3703.5	3792.7	3836.2
7.5°	2855.1	2883.4	2924.7	2997.6	3061.8	3106.3	3257.5	3431.6	3605.6	3769.8	3864.4
10°	2492.9	2519.0	2562.5	2639.7	2738.7	2799.6	3003.0	3244.5	3500.1	3749.2	3906.9
12.5°	2262.3	2276.5	2300.4	2383.1	2472.2	2540.8	2780.1	3079.2	3413.1	3748.1	3975.4
15°	2219.9	2224.3	2204.7	2241.7	2311.3	2377.6	2620.2	2945.4	3346.7	3765.5	4064.6
17.5°	2287.3	2285.2	2219.9	2215.6	2271.0	2325.4	2541.9	2852.9	3300.0	3805.7	4179.9
20°	2389.6	2382.0	2268.9	2248.2	2306.9	2358.0	2536.4	2818.1	3282.5	3873.1	4320.2
22.5°	2525.5	2512.5	2335.2	2313.4	2376.5	2429.8	2603.9	2851.8	3297.8	3963.4	4483.3
25°	2694.1	2674.5	2449.4	2425.5	2489.6	2542.9	2724.6	2948.6	3343.5	4073.3	4690.0
27.5°	2884.5	2856.2	2632.1	2570.1	2643.0	2698.5	2885.6	3096.6	3415.2	4189.7	4943.4
30°	3063.9	3026.9	2824.6	2722.4	2811.6	2873.6	3059.6	3272.8	3530.5	4369.1	5290.4
32.5°	3244.5	3203.1	2996.5	2874.7	2955.2	3022.6	3239.0	3515.3	3747.0	4643.2	5751.5
35°	3660.0	3616.5	3363.0	3161.8	3160.7	3198.8	3490.3	3847.0	4033.0	5025.0	6301.9
37.5°	4359.3	4334.3	4092.9	3711.1	3608.8	3566.4	3832.9	4242.9	4444.2	5550.3	6922.9
40°	5125.0	5103.3	4832.5	4486.6	4331.0	4226.6	4324.5	4794.4	5025.0	6192.0	7557.0
42.5°	5989.7	5886.4	5403.5	5300.2	5160.9	5081.5	4993.4	5474.2	5738.5	6890.3	8185.7
45°	6775.0	6601.0	5974.5	5817.9	5786.3	5805.9	5854.9	6387.8	6541.2	7720.2	8812.2
47.5°	7242.7	7105.7	6624.9	6474.8	6466.1	6595.6	6965.4	7420.0	7340.6	8443.5	9363.6
50°	7687.6	7563.6	7164.4	7201.4	7241.6	7417.8	8225.9	8481.5	8070.4	9099.3	9869.4
52.5°	8047.6	7858.3	7649.5	7857.2	8055.2	8339.1	9526.8	9434.3	8588.1	9621.4	10302.3
55°	8255.3	8169.4	8270.5	8479.4	8851.4	9312.5	10754.7	10227.2	8966.6	10097.8	10590.5
57.5°	9016.7	8848.1	9049.3	9229.9	9714.9	10359.9	11806.5	10817.8	9239.6	10392.6	10656.9
60°	9937.9	9802.0	9920.5	10220.7	10875.5	11633.6	12789.8	11299.7	9382.1	10581.8	10485.0
62.5°	11404.1	11224.6	11150.7	11486.7	12354.7	13182.4	13535.9	11633.6	9350.6	10498.1	9895.5
65°	13368.4	13182.4	12851.8	13156.3	14260.3	14844.3	14370.1	11704.3	9133.1	9820.5	8405.4
67.5°	15380.6	15245.7	14962.9	15476.3	16472.6	16660.7	15252.2	11532.4	8432.6	7962.7	5938.6
70°	16709.7	16652.0	16835.8	17971.4	18860.0	18805.6	16061.4	10609.0	6572.7	4896.6	2937.8
72.5°	15751.4	16027.7	17385.1	19444.0	20529.5	20085.8	15645.9	8146.5	3756.8	1883.8	849.5
73°	14957.5	15310.9	17138.2	19499.5	20661.1	20174.9	15296.8	7477.6	3202.1	1486.8	643.9
75°	10405.6	10839.6	14188.5	18160.6	20045.5	19222.2	12750.6	4576.9	1483.6	659.1	259.9
77.5°	5052.2	5373.0	7812.6	13121.5	15589.4	15018.4	7937.7	1705.4	670.0	412.2	119.6
80°	1886.0	2097.0	3391.3	6678.2	9009.1	9245.1	3491.4	645.0	445.9	331.7	60.9
82.5°	493.8	550.4	1250.8	2978.0	4617.1	4832.5	1100.7	325.2	326.3	273.0	37.0
85°	157.7	180.6	390.5	1336.7	2175.3	1909.9	287.1	157.7	237.1	203.4	20.7
87.5°	19.6	25.0	124.0	314.3	479.7	266.5	44.6	46.8	101.2	113.1	12.0
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°	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2	3824.2
2.5°	3832.9	3827.5	3828.6	3800.3	3781.8	3744.8	3706.7	3689.3	3670.8	3663.2	3670.8
5°	3852.5	3842.7	3814.4	3727.4	3634.9	3515.3	3403.3	3318.4	3211.9	3182.5	3212.9
7.5°	3882.9	3863.4	3780.7	3603.4	3397.8	3169.4	2912.7	2725.7	2572.3	2473.3	2509.2
10°	3927.5	3890.5	3724.1	3422.9	3055.2	2650.6	2286.3	2002.4	1801.2	1718.5	1715.2
12.5°	4002.6	3933.0	3654.5	3187.9	2636.5	2097.0	1619.5	1311.7	1148.6	1043.1	1040.9
15°	4085.2	3983.0	3566.4	2906.2	2149.2	1502.1	1043.1	809.2	703.7	670.0	665.6
17.5°	4186.4	4040.6	3452.2	2559.3	1639.1	995.2	680.9	613.4	609.1	605.8	605.8
20°	4313.6	4109.2	3305.4	2162.3	1162.7	664.6	578.6	583.0	585.2	580.8	581.9
22.5°	4461.6	4178.8	3130.3	1735.9	786.4	555.8	553.6	559.1	561.2	559.1	560.1
25°	4633.4	4259.3	2917.1	1288.9	567.8	527.5	533.0	540.6	546.0	546.0	546.0
27.5°	4846.6	4357.2	2660.4	899.5	490.5	498.1	513.4	527.5	535.1	537.3	537.3
30°	5124.0	4479.0	2352.6	616.7	445.9	459.0	487.3	514.5	528.6	530.8	531.9
32.5°	5474.2	4616.0	1995.9	455.7	407.9	417.7	448.1	493.8	521.0	525.3	525.3
35°	5875.5	4774.8	1611.9	397.0	380.7	383.9	407.9	460.1	507.9	519.9	521.0
37.5°	6314.9	4931.4	1225.8	370.9	357.8	357.8	375.2	419.8	476.4	513.4	517.7
40°	6725.0	5026.1	859.2	350.2	337.2	337.2	352.4	385.0	438.3	493.8	505.8
42.5°	7103.5	5058.7	598.2	330.6	317.6	320.9	333.9	360.0	400.3	455.7	466.6
45°	7492.9	5053.3	436.2	307.8	298.0	307.8	317.6	337.2	366.5	398.1	400.3
47.5°	7786.5	5007.6	345.9	286.1	279.5	292.6	301.3	314.3	330.6	328.5	328.5
50°	8061.7	4896.6	278.4	256.7	261.0	276.3	280.6	285.0	286.1	265.4	263.2
52.5°	8270.5	4723.7	223.0	225.1	242.5	257.8	253.4	246.9	236.0	211.0	206.7
55°	8340.2	4390.9	175.1	186.0	215.4	234.9	218.6	204.5	183.8	163.1	158.8
57.5°	8214.0	3961.2	142.5	144.7	181.6	198.0	179.5	163.1	140.3	122.9	119.6
60°	7946.4	3483.8	117.5	108.8	140.3	154.4	142.5	126.2	105.5	92.5	91.4
62.5°	7415.6	2974.7	96.8	84.8	106.6	118.6	110.9	99.0	81.6	72.9	71.8
65°	6299.7	2379.8	78.3	68.5	82.7	92.5	85.9	77.2	64.2	57.6	56.6
67.5°	4397.4	1608.6	64.2	56.6	65.3	72.9	67.4	63.1	51.1	50.0	51.1
70°	2120.9	775.5	53.3	45.7	51.1	56.6	54.4	51.1	48.9	56.6	65.3
72.5°	608.0	259.9	42.4	38.1	41.3	44.6	46.8	45.7	53.3	68.5	79.4
73°	467.7	209.9	40.2	35.9	39.2	43.5	45.7	44.6	54.4	69.6	79.4
75°	200.1	101.2	30.5	29.4	32.6	38.1	40.2	40.2	54.4	70.7	76.1
77.5°	90.3	54.4	19.6	22.8	28.3	30.5	33.7	33.7	43.5	54.4	54.4
80°	51.1	29.4	15.2	17.4	20.7	20.7	20.7	18.5	19.6	21.8	23.9
82.5°	32.6	19.6	12.0	14.1	13.1	10.9	8.7	8.7	7.6	8.7	10.9
85°	18.5	10.9	10.9	8.7	5.4	4.4	5.4	4.4	1.1	0.0	1.1
87.5°	10.9	6.5	3.3	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)