

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: P321712

Luminaire Tested: **GAN-SA8A-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21117 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

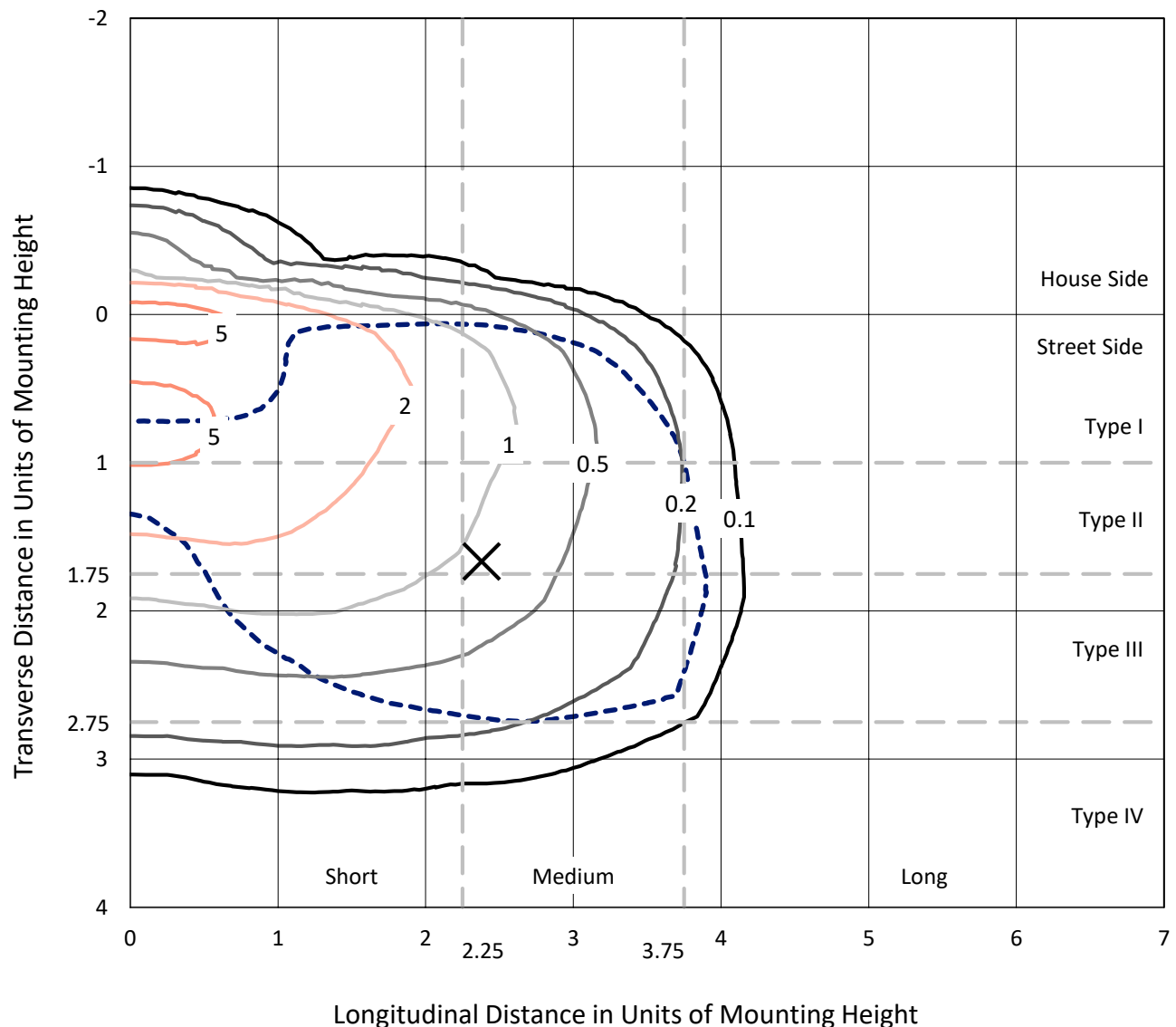
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

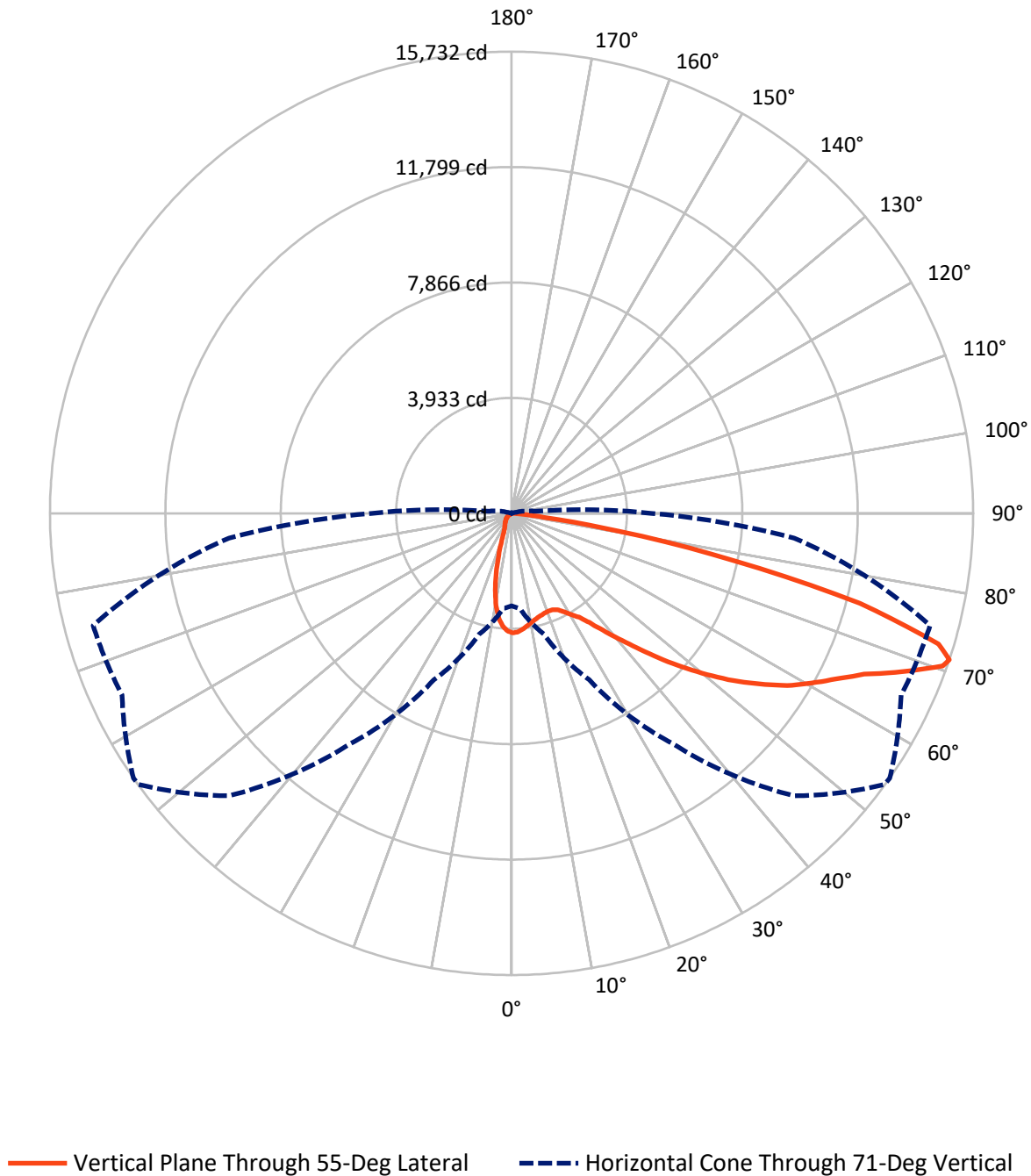
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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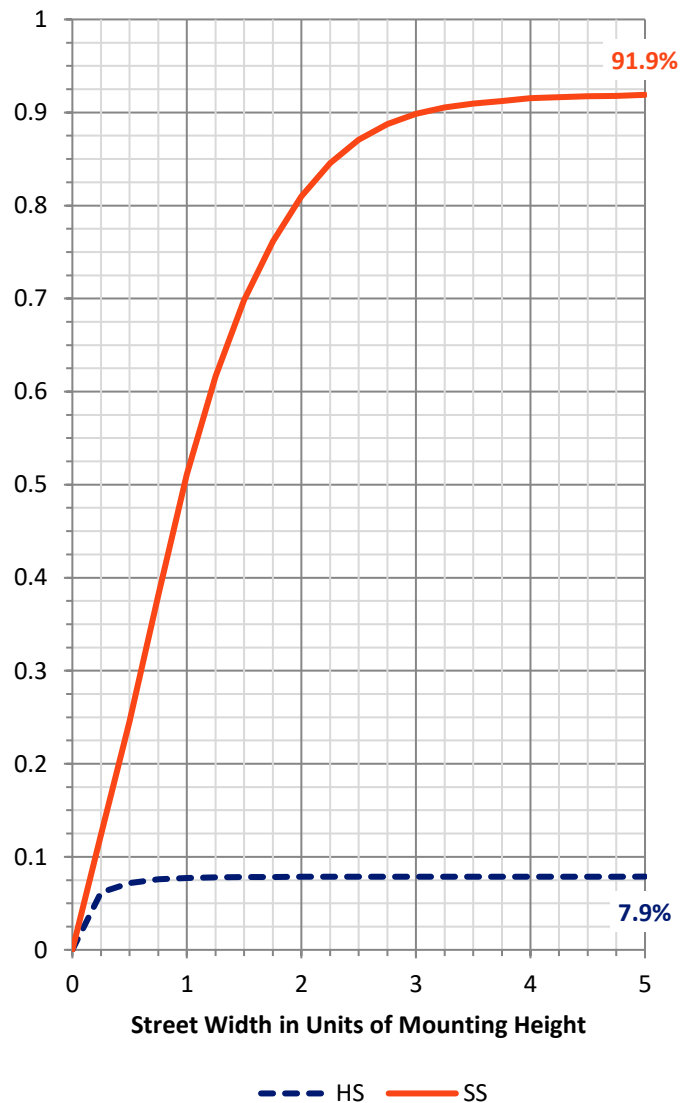
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1671.9	0.0	1671.9
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	19445.1	0.0	19445.1
	% Fixture	92.1	0.0	92.1
Total	Lumens	21117.0	0.0	21117.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.2	1.6
10°-20°	783.9	3.7
20°-30°	1259.8	6.0
30°-40°	2140.4	10.1
40°-50°	3322.2	15.7
50°-60°	4466.6	21.2
60°-70°	5464.1	25.9
70°-80°	3194.7	15.1
80°-90°	138.1	0.7
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°	21117.0	100.0
0°-180°	21117.0	100.0

Coefficient of Utilization



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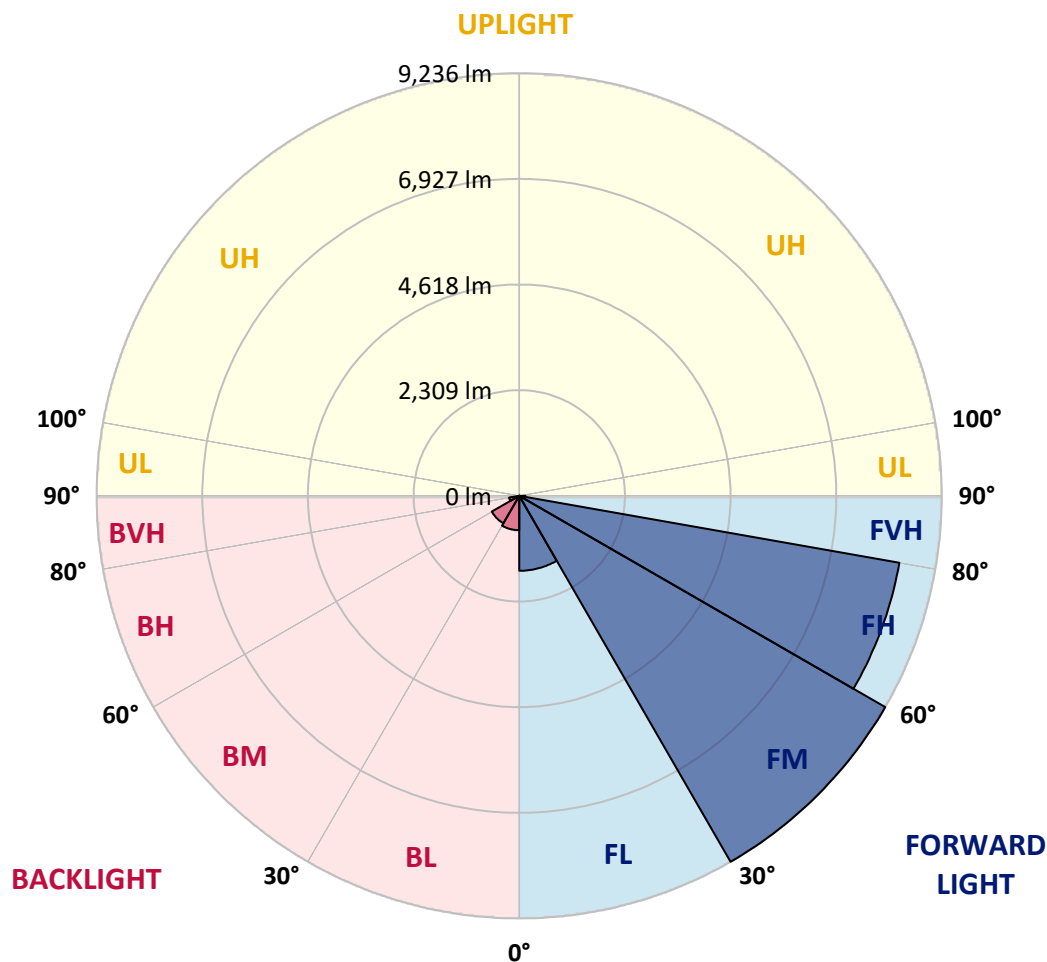
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1638.4	7.8			
FM	(30°-60°)	9236.0	43.7			
FH	(60°-80°)	8434.8	39.9			G4/12000
FVH	(80°-90°)	135.9	0.6			G2/225
BL	(0°-30°)	752.5	3.6	B2/1000		
BM	(30°-60°)	693.2	3.3	B1/1000		
BH	(60°-80°)	224.0	1.1	B1/500		G1/500
BVH	(80°-90°)	2.2	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5
2.5°	3953.0	3957.8	3974.8	3982.4	4000.4	4030.8	4045.9	4046.9	4071.5	4081.0	4088.6
5°	3673.3	3701.7	3730.2	3760.5	3815.5	3888.5	3960.6	3967.2	4046.9	4105.7	4137.0
7.5°	3432.5	3458.1	3492.2	3540.6	3618.3	3733.0	3853.5	3867.7	4018.4	4152.1	4222.3
10°	3185.0	3205.8	3255.1	3326.3	3433.4	3587.0	3749.2	3772.9	3992.8	4214.7	4338.0
12.5°	2920.4	2932.8	2992.5	3094.9	3252.3	3447.6	3661.0	3692.3	3976.7	4286.8	4474.5
15°	2719.4	2725.1	2782.0	2888.2	3068.4	3322.5	3592.7	3630.6	3980.5	4373.1	4623.4
17.5°	2668.2	2671.1	2701.4	2774.4	2933.7	3210.6	3538.7	3585.1	3991.9	4457.5	4773.2
20°	2875.9	2856.0	2824.7	2813.3	2881.6	3143.3	3506.4	3558.6	4007.1	4532.4	4907.8
22.5°	3445.7	3386.9	3257.0	3083.5	2978.3	3148.0	3515.0	3567.1	4055.4	4624.3	5063.4
25°	4291.5	4210.0	3989.0	3647.7	3319.6	3284.5	3586.1	3639.2	4149.3	4734.3	5212.2
27.5°	5253.9	5173.3	4903.1	4415.7	3856.3	3554.8	3749.2	3798.5	4288.7	4832.0	5326.0
30°	6175.6	6152.8	5834.2	5280.5	4531.4	3992.8	3959.7	4001.4	4392.0	4890.8	5416.1
32.5°	6956.9	6920.9	6664.8	6126.3	5304.2	4519.1	4207.1	4219.5	4469.8	4966.6	5533.7
35°	7681.3	7636.7	7412.0	6902.8	6096.9	5162.0	4588.3	4570.3	4639.5	5119.3	5704.3
37.5°	8313.8	8354.5	8105.2	7620.6	6808.0	5830.4	5102.2	5048.2	4905.0	5367.7	5951.8
40°	8842.8	8842.8	8712.9	8309.0	7576.1	6521.7	5683.5	5612.4	5304.2	5750.8	6265.7
42.5°	9033.4	9074.2	9122.6	8894.1	8263.5	7240.4	6331.1	6257.1	5866.5	6294.1	6662.0
45°	9044.8	9109.3	9356.8	9355.8	8884.6	7954.4	7061.2	7026.1	6587.1	6992.0	7153.2
47.5°	8884.6	8965.2	9372.9	9604.2	9376.7	8619.1	7859.6	7816.0	7433.8	7847.2	7667.1
50°	8637.1	8726.2	9200.3	9701.9	9711.4	9197.5	8700.6	8635.2	8365.9	8824.8	8198.1
52.5°	8194.3	8366.9	9045.8	9724.7	9931.4	9697.2	9500.9	9472.4	9408.9	9766.4	8621.0
55°	7247.0	7438.6	8658.0	9732.3	10135.2	10140.0	10250.9	10258.5	10386.5	10646.3	8935.8
57.5°	6799.5	6907.6	7980.9	9768.3	10437.7	10642.5	11015.2	11073.9	11272.1	11481.7	9295.1
60°	6517.9	6645.9	7647.2	9719.0	10912.8	11301.5	11723.5	11743.4	11955.8	12343.6	9781.6
62.5°	6293.2	6419.3	7436.7	9529.3	11446.6	12094.2	12415.6	12417.5	12576.8	13370.5	10334.4
65°	5738.5	5844.7	7010.9	9316.0	11799.3	12878.4	13219.7	13207.4	13337.3	14453.3	10976.3
67.5°	4936.3	5017.8	6141.4	8507.2	11666.6	13591.4	14433.4	14392.6	14235.2	15389.2	11228.5
70°	3816.5	3845.9	4840.5	7089.6	10422.5	13865.4	15606.3	15585.4	14786.1	15221.3	10304.0
71°	3154.6	3251.4	4265.9	6257.1	9589.1	13612.3	15720.1	15732.4	14647.7	14764.3	9667.8
72.5°	1831.9	1914.4	3092.1	4805.4	8141.2	12556.0	15130.3	15219.4	14001.0	13429.3	8257.8
75°	392.6	420.0	1146.4	2325.9	4478.3	8800.2	11942.5	12260.1	11411.5	9135.8	4977.1
77.5°	273.1	294.9	491.2	1055.3	1480.1	4348.4	7418.7	7777.1	6817.5	3433.4	1593.0
80°	216.2	240.8	383.1	521.5	400.1	1402.4	3475.1	3694.2	2273.8	766.1	268.3
82.5°	120.4	143.2	298.7	281.6	153.6	266.4	972.8	1099.9	455.1	154.6	63.5
85°	35.1	42.7	192.5	204.8	65.4	51.2	165.9	205.8	86.3	40.8	28.4
87.5°	0.0	0.0	92.9	78.7	19.0	7.6	15.2	17.1	17.1	17.1	19.0
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°	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5	4072.5
2.5°	4088.6	4095.2	4071.5	4040.3	4007.1	3966.3	3923.6	3890.4	3889.5	3873.4	3857.2
5°	4138.9	4135.1	4069.6	3970.1	3852.5	3730.2	3613.6	3481.8	3438.1	3384.1	3366.1
7.5°	4231.8	4205.2	4066.8	3848.7	3590.8	3334.8	3070.2	2803.8	2690.0	2587.6	2569.6
10°	4348.4	4298.2	4048.8	3666.7	3193.5	2721.3	2322.1	1959.9	1800.6	1678.3	1672.6
12.5°	4469.8	4393.0	3998.5	3391.7	2673.0	2009.2	1549.3	1192.8	1060.1	974.7	982.3
15°	4596.8	4482.1	3890.4	3020.9	2080.3	1363.5	952.0	742.4	689.3	667.5	673.2
17.5°	4726.7	4543.7	3739.7	2574.3	1495.3	879.9	659.0	600.2	600.2	604.9	606.8
20°	4839.6	4576.9	3517.8	2073.7	1013.6	641.0	576.5	568.0	572.7	580.3	581.2
22.5°	4951.5	4578.8	3228.6	1566.4	709.2	561.3	549.0	545.2	548.1	556.6	557.5
25°	5042.5	4556.1	2866.4	1114.1	566.1	529.1	523.4	521.5	523.4	533.8	533.8
27.5°	5079.5	4473.6	2424.5	783.2	507.3	493.1	491.2	493.1	495.9	503.5	504.4
30°	5083.3	4329.4	1942.8	567.0	459.9	444.7	448.5	455.1	452.3	450.4	452.3
32.5°	5092.7	4162.6	1473.5	466.5	420.0	396.3	391.6	391.6	380.2	373.6	369.8
35°	5124.0	3966.3	1068.6	419.1	379.3	351.8	333.8	312.9	291.1	279.7	276.9
37.5°	5173.3	3760.5	765.2	387.8	343.2	312.0	277.8	240.8	209.6	201.0	201.0
40°	5263.4	3548.1	566.1	363.2	314.8	275.9	224.7	176.4	147.9	143.2	143.2
42.5°	5405.6	3324.4	451.3	341.3	290.1	238.9	171.6	128.0	107.1	104.3	103.4
45°	5553.6	3077.8	394.4	320.5	263.6	196.3	127.1	94.8	82.5	79.6	79.6
47.5°	5701.5	2815.2	367.0	300.6	238.0	152.7	94.8	74.9	69.2	69.2	70.2
50°	5826.6	2541.2	347.0	278.8	204.8	115.7	74.9	63.5	61.6	65.4	66.4
52.5°	5857.9	2271.9	322.4	251.3	164.0	88.2	61.6	55.9	55.9	55.9	55.9
55°	5839.0	2063.3	290.1	217.1	121.4	70.2	53.1	49.3	48.4	48.4	48.4
57.5°	5903.5	1940.0	232.3	168.8	87.2	56.9	46.5	43.6	41.7	40.8	40.8
60°	6033.4	1859.4	165.9	121.4	65.4	47.4	39.8	37.0	34.1	32.2	32.2
62.5°	6205.9	1789.2	123.3	90.1	50.3	37.9	33.2	30.3	26.5	24.7	24.7
65°	6338.7	1664.1	93.9	67.3	37.9	30.3	25.6	24.7	19.0	17.1	16.1
67.5°	6135.8	1389.1	75.9	49.3	28.4	23.7	19.9	19.0	11.4	9.5	9.5
70°	5262.5	967.2	60.7	36.0	20.9	19.0	16.1	12.3	8.5	7.6	7.6
71°	4772.3	807.9	55.0	30.3	18.0	18.0	15.2	10.4	7.6	6.6	6.6
72.5°	3964.4	573.7	46.5	23.7	16.1	19.0	16.1	9.5	7.6	6.6	5.7
75°	2301.3	239.9	32.2	16.1	12.3	22.8	20.9	8.5	5.7	4.7	4.7
77.5°	692.2	88.2	18.0	10.4	9.5	19.9	23.7	7.6	2.8	0.9	0.9
80°	126.1	37.9	11.4	6.6	6.6	12.3	18.0	3.8	0.0	0.0	0.0
82.5°	44.6	19.0	6.6	3.8	2.8	5.7	8.5	0.0	0.0	0.0	0.0
85°	25.6	13.3	3.8	1.9	0.0	0.9	1.9	0.0	0.0	0.0	0.0
87.5°	17.1	3.8	0.0	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)