

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: P323012

Luminaire Tested: **GAN-SA8C-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30203 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

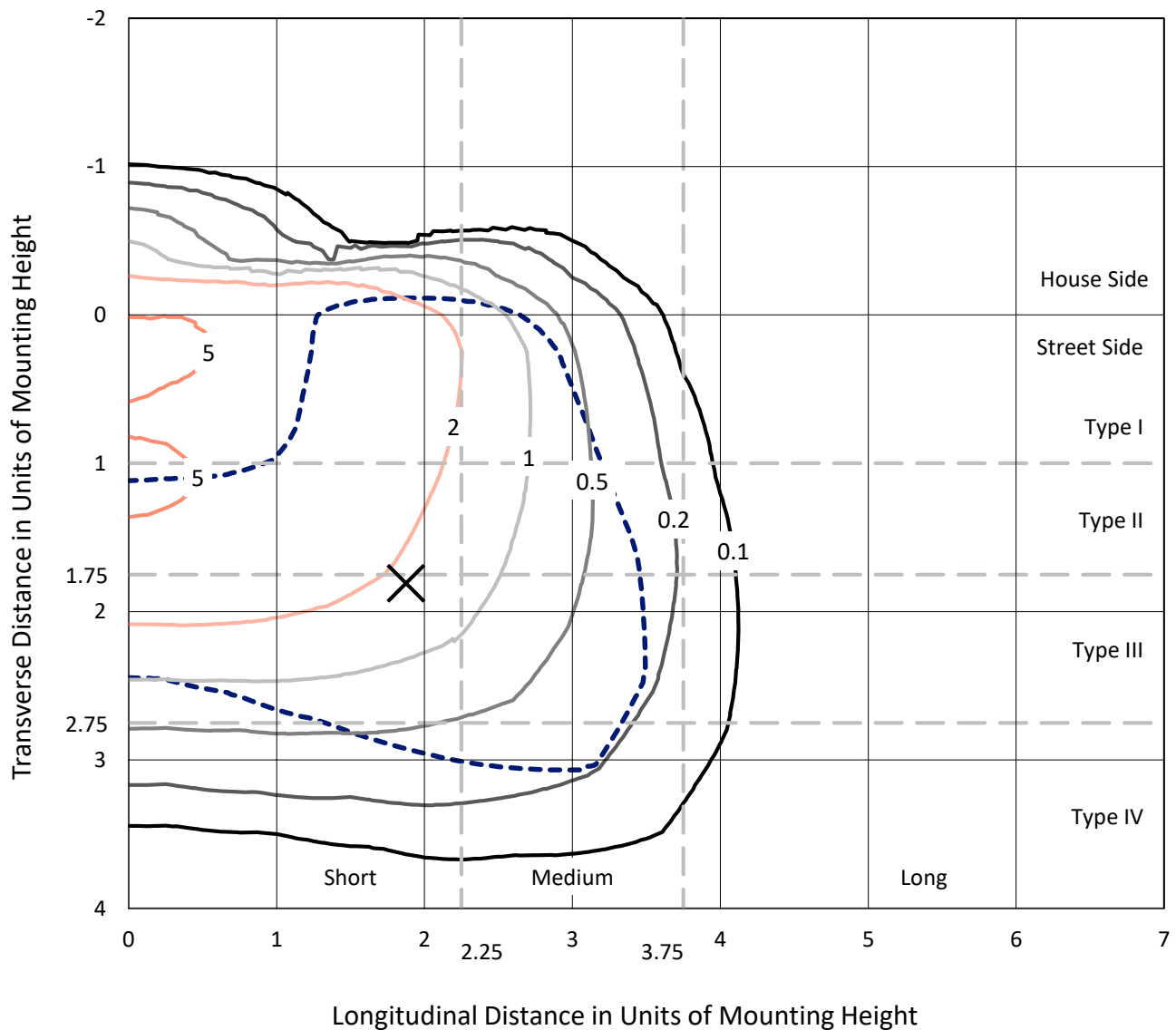
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

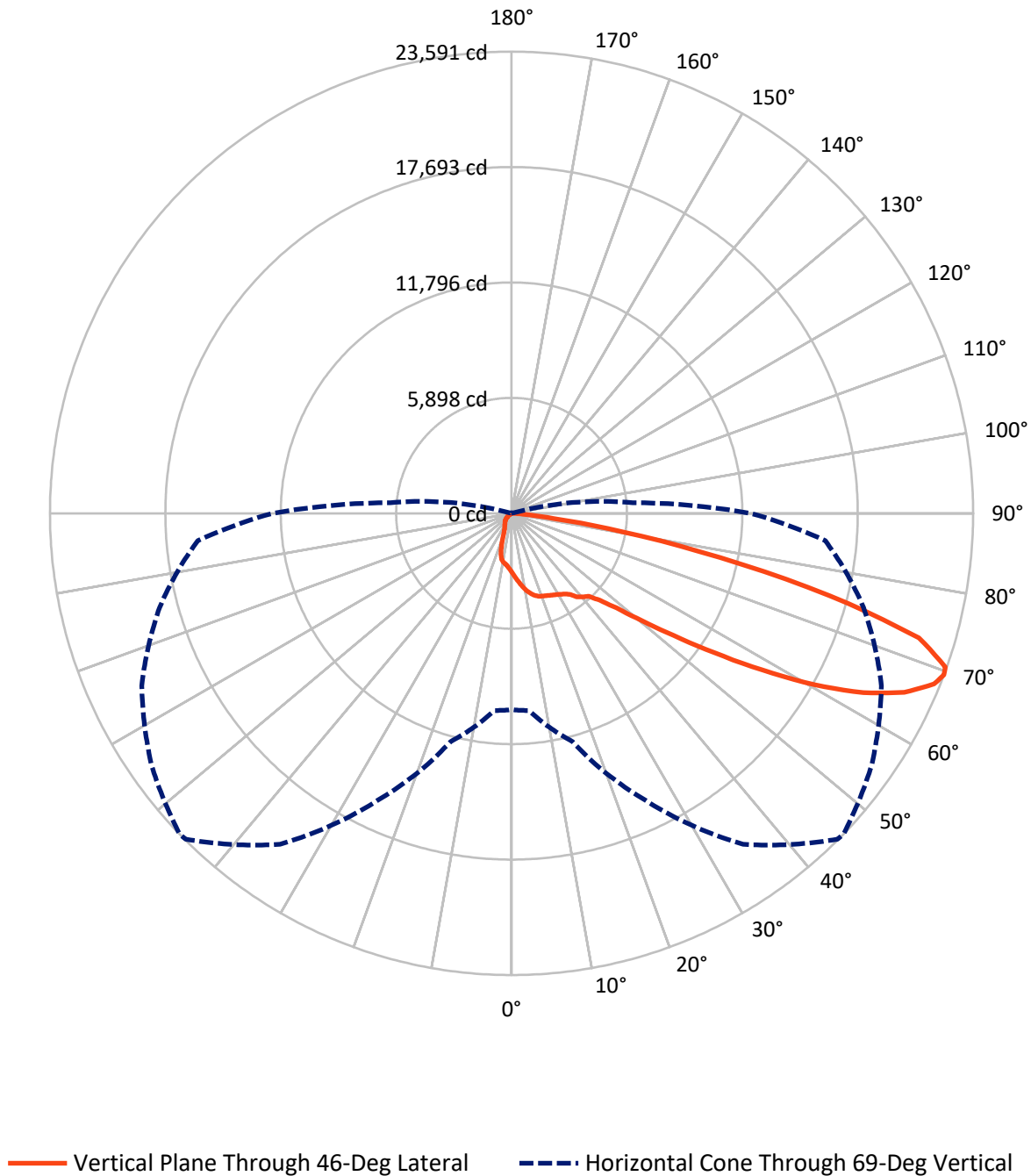
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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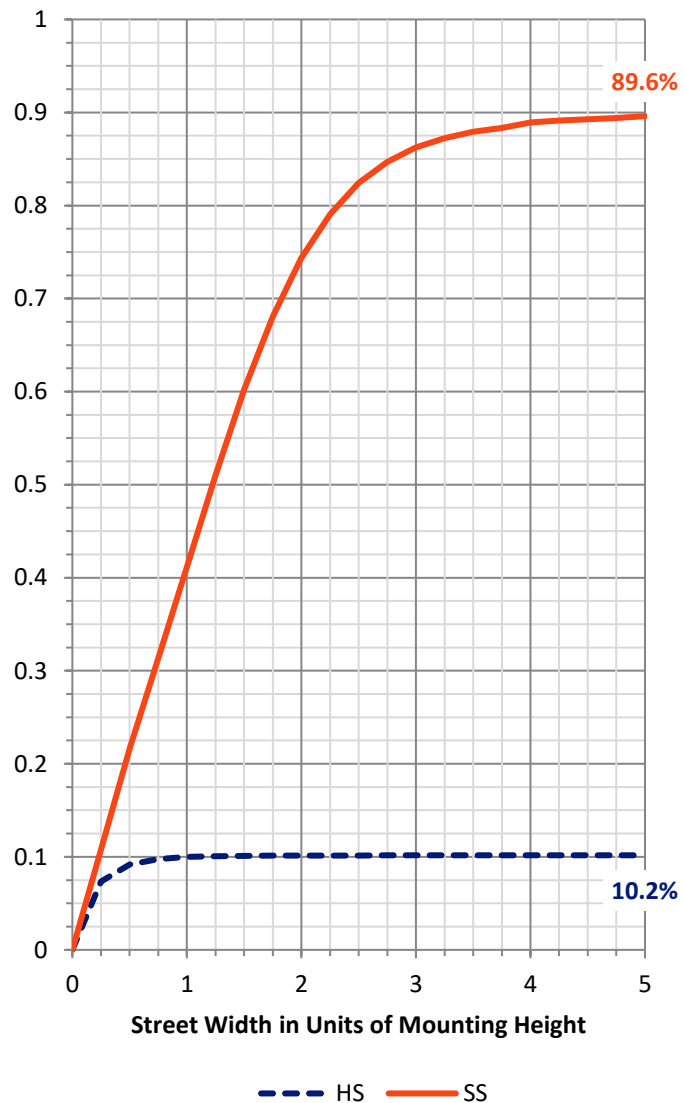
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3099.6	0.0	3099.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	27103.4	0.0	27103.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	30203.0	0.0	30203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.2	1.0
10°-20°	913.8	3.0
20°-30°	1437.1	4.8
30°-40°	2060.8	6.8
40°-50°	3561.9	11.8
50°-60°	7036.9	23.3
60°-70°	9834.7	32.6
70°-80°	4751.2	15.7
80°-90°	305.4	1.0
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°	30203.0	100.0
0°-180°	30203.0	100.0

Coefficient of Utilization



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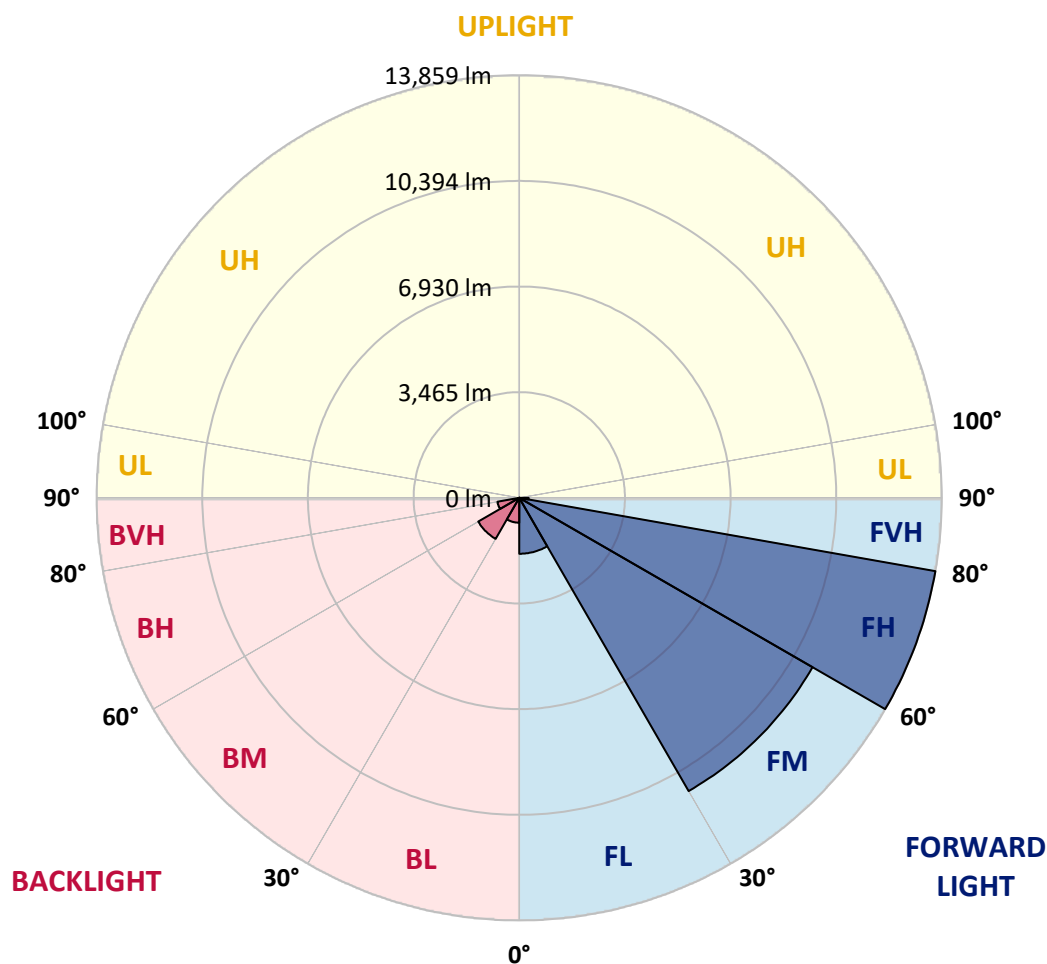
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1835.2	6.1			
FM	(30°-60°)	11106.3	36.8			
FH	(60°-80°)	13859.0	45.9			G5
FVH	(80°-90°)	302.8	1.0			G3/500
BL	(0°-30°)	817.0	2.7	B2/1000		
BM	(30°-60°)	1553.3	5.1	B2/2500		
BH	(60°-80°)	726.8	2.4	B2/1000		G2/1000
BVH	(80°-90°)	2.6	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2
2.5°	3361.8	3357.6	3337.8	3329.3	3281.1	3252.8	3241.5	3206.1	3155.1	3104.1	3047.5
5°	3744.2	3742.8	3706.0	3670.6	3579.9	3495.0	3479.4	3397.2	3282.5	3174.9	3067.3
7.5°	4135.0	4116.6	4079.8	4011.8	3880.1	3744.2	3731.5	3615.3	3452.5	3296.7	3142.3
10°	4466.4	4455.1	4406.9	4303.6	4149.2	3994.8	3979.3	3836.2	3652.1	3461.0	3264.1
12.5°	4724.1	4715.6	4651.9	4523.1	4358.8	4198.8	4177.5	4050.1	3853.2	3639.4	3407.2
15°	4881.3	4877.1	4799.2	4661.8	4500.4	4361.6	4343.2	4231.3	4048.7	3824.9	3562.9
17.5°	4918.2	4919.6	4838.8	4700.1	4567.0	4467.8	4453.7	4368.7	4215.8	3993.4	3718.7
20°	4836.0	4853.0	4780.8	4660.4	4578.3	4525.9	4514.6	4463.6	4334.7	4125.1	3843.3
22.5°	4719.9	4728.4	4678.8	4598.1	4564.1	4574.0	4568.4	4540.0	4431.0	4238.4	3966.5
25°	4649.1	4649.1	4619.4	4551.4	4574.0	4634.9	4636.3	4630.7	4544.3	4377.2	4116.6
27.5°	4646.3	4637.8	4603.8	4552.8	4615.1	4708.6	4714.2	4752.5	4698.7	4545.7	4303.6
30°	4759.5	4749.6	4677.4	4610.9	4690.2	4790.7	4804.9	4888.4	4861.5	4728.4	4511.7
32.5°	5024.4	4989.0	4828.9	4719.9	4779.4	4899.7	4918.2	5051.3	5093.7	4953.6	4712.8
35°	5386.9	5275.0	5044.2	4926.6	4932.3	5058.3	5075.3	5270.8	5396.8	5160.3	4868.6
37.5°	5886.8	5831.5	5456.3	5141.9	5167.4	5358.6	5408.1	5620.5	5585.1	5273.6	5045.6
40°	6982.8	6896.5	6497.1	5745.2	5392.5	5602.1	5617.7	5731.0	5733.8	5529.9	5413.8
42.5°	8475.4	8440.0	8019.4	6839.8	5835.8	5765.0	5793.3	5984.5	6198.3	6070.9	6065.2
45°	10128.0	10109.6	9663.5	8292.7	6732.2	6298.9	6334.3	6590.6	6999.8	7028.2	7208.0
47.5°	11457.7	11449.3	11192.9	9914.2	8104.4	7203.8	7215.1	7487.0	8206.4	8561.8	8849.3
50°	12669.9	12711.0	12508.5	11668.7	9973.7	8621.3	8594.4	8775.6	9931.2	10513.2	10870.1
52.5°	14355.1	14413.2	13845.3	13305.8	11935.0	10380.1	10358.8	10548.6	12004.4	12440.5	12504.3
55°	15843.4	15744.3	15295.4	15139.6	14326.8	12552.4	12546.7	12713.8	14009.6	14195.1	14312.6
57.5°	16500.5	16462.3	16678.9	17035.8	16831.9	15119.8	15107.1	14979.6	15803.8	15823.6	16184.7
60°	16915.4	16962.2	17626.3	18726.6	19235.0	17882.6	17800.5	17023.1	17517.3	17473.4	17860.0
62.5°	16603.9	16695.9	17891.1	19725.0	21033.5	20294.3	20178.2	18895.2	18981.5	18830.0	19189.7
65°	14949.9	15092.9	17051.4	19536.7	21925.6	22179.1	22061.6	20547.8	20144.2	19894.9	19695.3
67.5°	12138.9	12223.9	14268.7	17898.2	21523.5	23303.5	23279.4	21996.4	21022.2	19715.1	18165.9
69°	10031.7	10115.3	12083.7	16173.4	20638.4	23544.2	23591.0	22460.9	20855.1	18621.9	16095.5
70°	8496.7	8585.9	10419.7	14695.0	19611.7	23432.4	23515.9	22417.0	20376.4	17355.8	14278.6
72.5°	4456.5	4533.0	6415.0	10123.8	15987.9	21516.4	21769.9	20522.3	17272.3	12604.8	8442.8
75°	1400.5	1444.4	2505.1	5292.0	10946.5	16729.9	16788.0	16098.3	12264.9	6933.3	3516.2
77.5°	533.9	521.1	834.1	1950.0	5534.2	10534.4	10889.9	10060.0	6436.2	2451.3	811.4
80°	287.5	288.9	433.3	807.2	2367.7	5413.8	5714.0	4875.7	2287.0	764.7	186.9
82.5°	124.6	130.3	243.6	427.7	1087.6	1996.7	2146.8	1787.1	873.7	514.0	69.4
85°	26.9	29.7	117.5	232.2	443.2	560.8	587.7	579.2	556.5	399.3	26.9
87.5°	0.0	0.0	52.4	83.6	111.9	127.4	111.9	145.9	307.3	269.1	14.2
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°	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2	3026.2
2.5°	3029.1	3003.6	2959.7	2911.5	2877.5	2842.1	2813.8	2801.1	2786.9	2777.0	2789.7
5°	3023.4	2973.8	2888.9	2806.7	2747.3	2699.1	2659.5	2643.9	2628.3	2617.0	2615.6
7.5°	3073.0	3003.6	2873.3	2752.9	2660.9	2595.7	2541.9	2519.3	2500.9	2492.4	2485.3
10°	3167.8	3078.6	2904.4	2747.3	2628.3	2517.8	2401.7	2312.5	2254.4	2227.5	2217.6
12.5°	3291.0	3179.2	2963.9	2777.0	2604.2	2391.8	2145.4	1933.0	1795.6	1750.3	1723.4
15°	3435.5	3296.7	3041.8	2815.2	2516.4	2128.4	1710.7	1433.1	1305.7	1280.2	1251.8
17.5°	3574.3	3421.3	3135.3	2822.3	2323.8	1700.7	1253.3	1064.9	1015.4	1032.3	1036.6
20°	3696.0	3544.5	3227.3	2760.0	1974.1	1275.9	970.0	923.3	941.7	974.3	979.9
22.5°	3819.2	3663.5	3312.3	2595.7	1526.6	968.6	873.7	885.1	903.5	936.0	941.7
25°	3969.4	3807.9	3391.6	2294.1	1145.6	824.2	829.8	846.8	865.2	895.0	897.8
27.5°	4142.1	3990.6	3444.0	1901.8	849.7	757.6	776.0	801.5	819.9	848.3	853.9
30°	4371.5	4231.3	3461.0	1495.4	712.3	698.1	706.6	737.8	764.7	790.2	794.4
32.5°	4586.8	4469.2	3404.3	1128.6	659.9	642.9	642.9	661.3	692.5	716.6	722.2
35°	4785.0	4708.6	3223.1	825.6	620.3	591.9	577.8	577.8	597.6	617.4	623.1
37.5°	5047.0	5044.2	2929.9	658.5	582.0	549.5	519.7	497.1	490.0	494.2	497.1
40°	5495.9	5500.2	2547.6	590.5	549.5	505.6	460.2	419.2	380.9	368.2	366.8
42.5°	6196.9	6133.2	2146.8	557.9	521.1	460.2	392.3	337.0	277.6	259.1	257.7
45°	7310.0	6931.9	1722.0	528.2	491.4	409.3	324.3	249.2	201.1	186.9	186.9
47.5°	8931.4	7981.2	1334.0	495.6	451.7	351.2	245.0	179.8	147.3	140.2	141.6
50°	10608.1	9009.3	1022.4	454.6	403.6	290.3	181.3	130.3	111.9	111.9	113.3
52.5°	12095.0	9762.7	797.3	410.7	344.1	228.0	137.4	102.0	93.5	92.0	93.5
55°	13487.0	10248.4	610.3	359.7	273.3	169.9	104.8	83.6	77.9	75.1	73.6
57.5°	14829.5	10489.1	457.4	290.3	198.3	123.2	83.6	70.8	65.1	60.9	59.5
60°	15723.1	10293.7	314.4	213.8	137.4	89.2	69.4	60.9	53.8	49.6	48.1
62.5°	16227.2	9759.8	202.5	154.4	97.7	66.6	55.2	51.0	41.1	36.8	36.8
65°	16023.3	8879.0	141.6	110.5	70.8	49.6	41.1	41.1	29.7	24.1	22.7
67.5°	14199.3	7501.1	107.6	82.1	51.0	36.8	31.2	35.4	18.4	11.3	11.3
69°	12216.8	6216.7	92.0	68.0	42.5	29.7	26.9	32.6	12.7	8.5	7.1
70°	10618.0	5362.8	83.6	59.5	35.4	25.5	24.1	31.2	12.7	7.1	5.7
72.5°	6352.7	2990.8	63.7	42.5	22.7	19.8	19.8	35.4	12.7	7.1	5.7
75°	2567.4	1053.6	46.7	29.7	17.0	17.0	24.1	45.3	11.3	5.7	4.2
77.5°	582.0	230.8	26.9	18.4	11.3	17.0	28.3	35.4	7.1	2.8	0.0
80°	141.6	56.6	17.0	11.3	7.1	12.7	21.2	19.8	1.4	0.0	0.0
82.5°	46.7	19.8	7.1	5.7	1.4	4.2	9.9	5.7	0.0	0.0	0.0
85°	19.8	11.3	2.8	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0
87.5°	12.7	4.2	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)