

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: P322953

Luminaire Tested: **GAN-SA9A-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322953
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-SA9A-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA 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: 30196 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

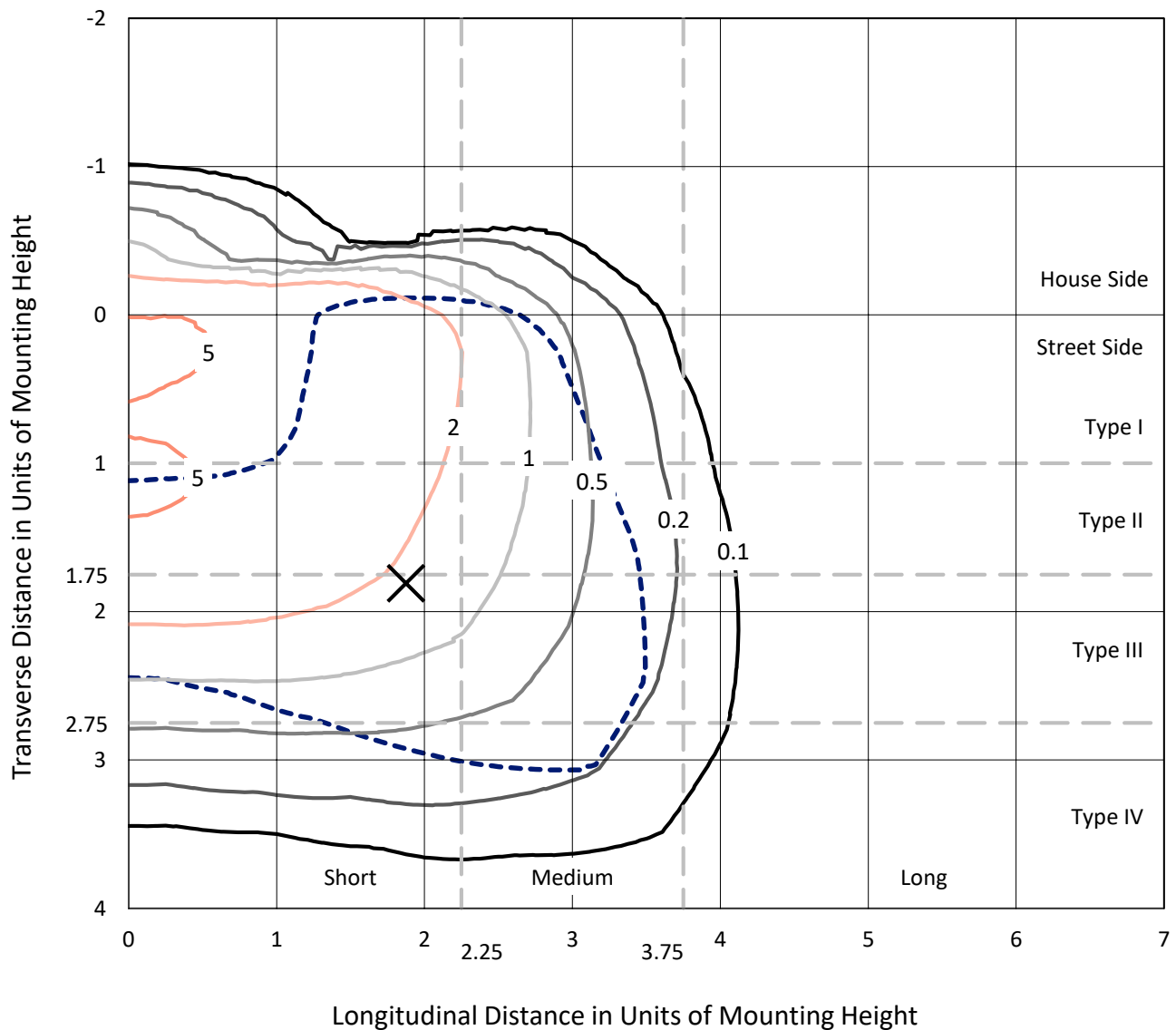
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

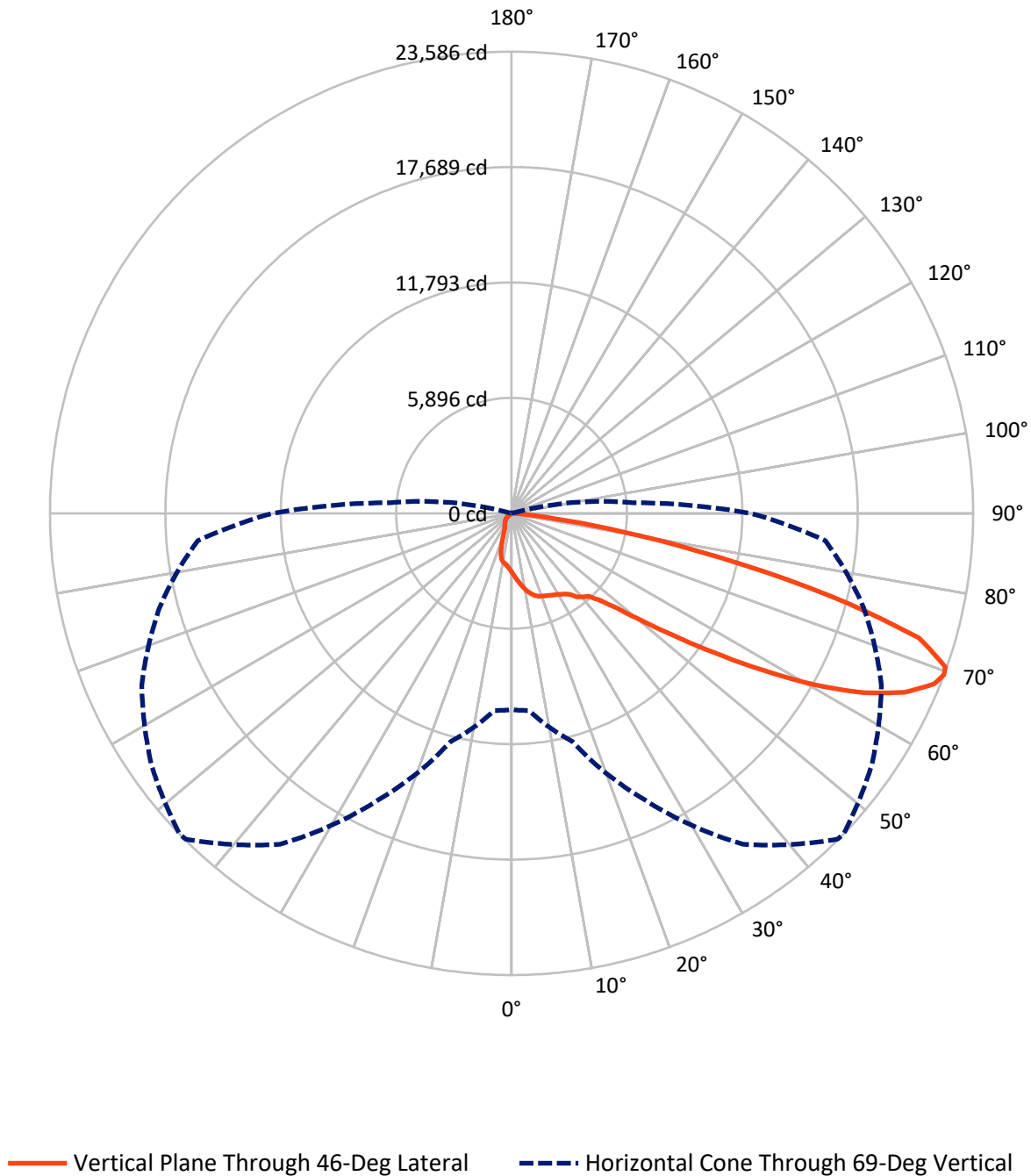
✕ Max cd
 - - - 1/2 Max cd



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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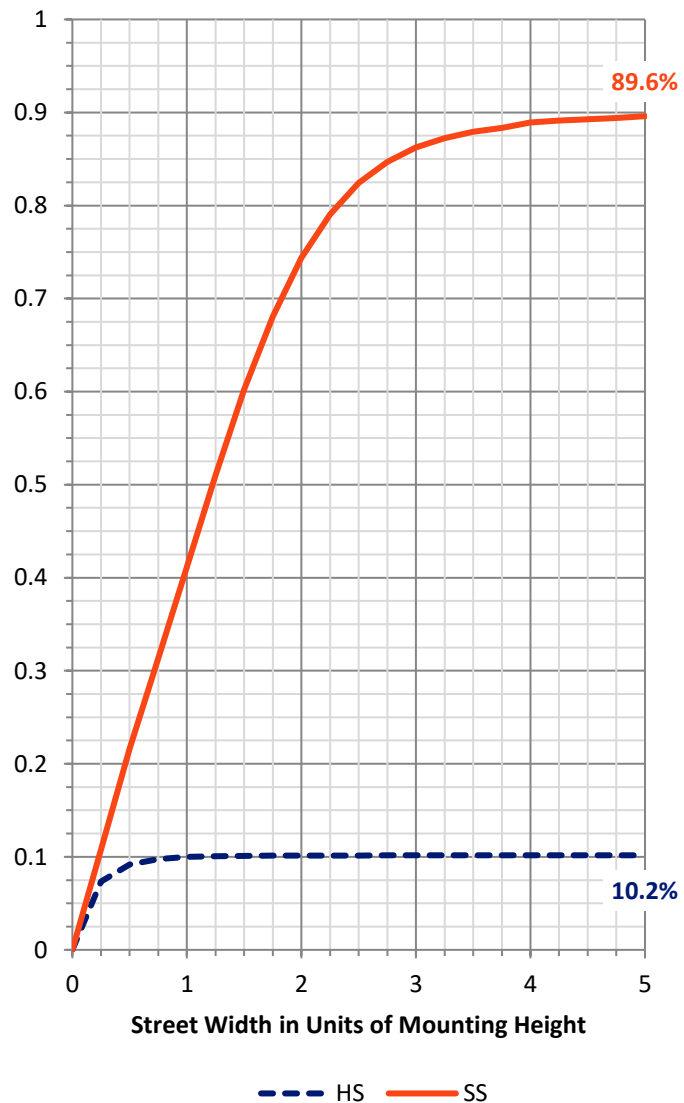
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3098.9	0.0	3098.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	27097.1	0.0	27097.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	30196.0	0.0	30196.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.1	1.0
10°-20°	913.6	3.0
20°-30°	1436.8	4.8
30°-40°	2060.4	6.8
40°-50°	3561.1	11.8
50°-60°	7035.2	23.3
60°-70°	9832.4	32.6
70°-80°	4750.1	15.7
80°-90°	305.3	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°	30196.0	100.0
0°-180°	30196.0	100.0

Coefficient of Utilization



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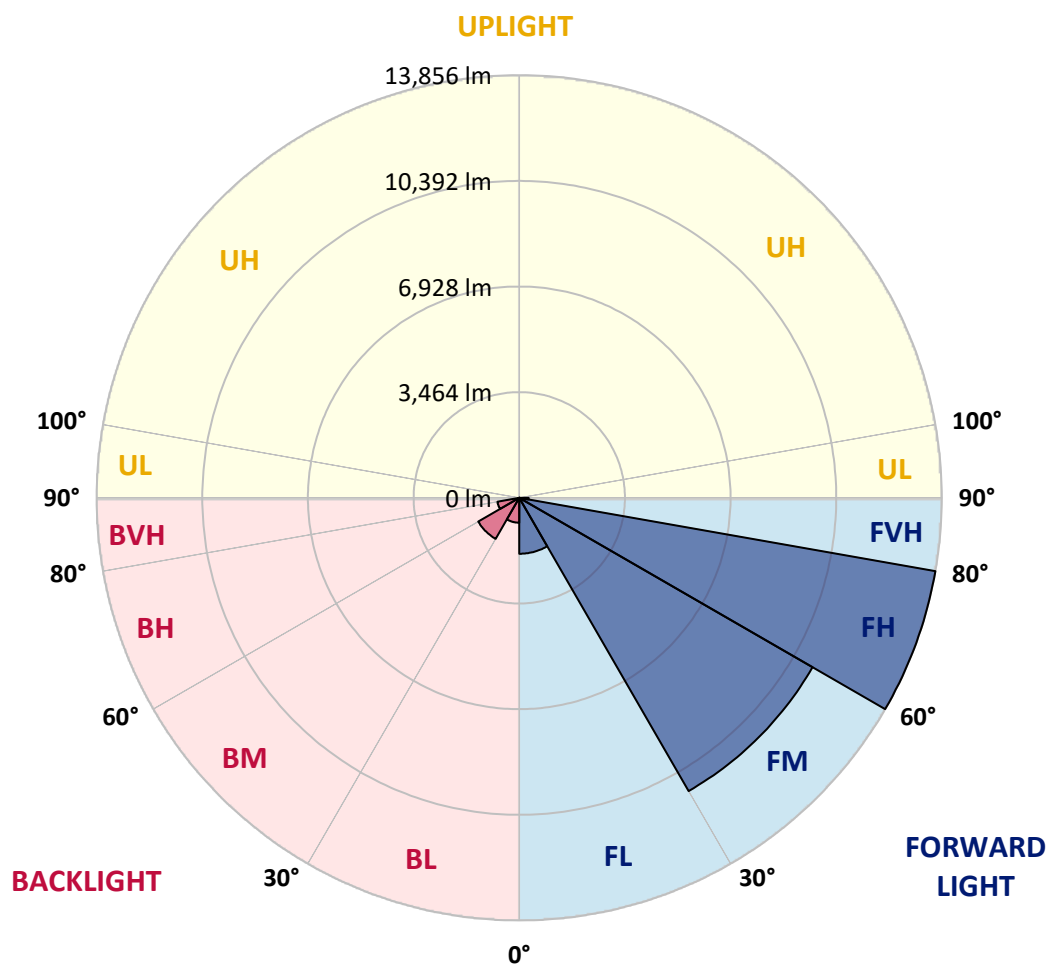
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1834.8	6.1			
FM	(30°-60°)	11103.7	36.8			
FH	(60°-80°)	13855.8	45.9			G5
FVH	(80°-90°)	302.7	1.0			G3/500
BL	(0°-30°)	816.8	2.7	B2/1000		
BM	(30°-60°)	1552.9	5.1	B2/2500		
BH	(60°-80°)	726.6	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°	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5
2.5°	3361.1	3356.8	3337.0	3328.5	3280.4	3252.1	3240.7	3205.3	3154.4	3103.4	3046.8
5°	3743.3	3741.9	3705.1	3669.7	3579.1	3494.2	3478.6	3396.5	3281.8	3174.2	3066.6
7.5°	4134.1	4115.7	4078.9	4010.9	3879.2	3743.3	3730.6	3614.5	3451.7	3295.9	3141.6
10°	4465.4	4454.1	4405.9	4302.6	4148.2	3993.9	3978.3	3835.4	3651.3	3460.2	3263.4
12.5°	4723.0	4714.6	4650.8	4522.0	4357.8	4197.8	4176.6	4049.1	3852.3	3638.6	3406.4
15°	4880.2	4876.0	4798.1	4660.8	4499.4	4360.6	4342.2	4230.4	4047.7	3824.0	3562.1
17.5°	4917.0	4918.4	4837.7	4699.0	4565.9	4466.8	4452.6	4367.7	4214.8	3992.5	3717.8
20°	4834.9	4851.9	4779.7	4659.3	4577.2	4524.8	4513.5	4462.5	4333.7	4124.2	3842.4
22.5°	4718.8	4727.3	4677.7	4597.0	4563.1	4573.0	4567.3	4539.0	4430.0	4237.4	3965.6
25°	4648.0	4648.0	4618.3	4550.3	4573.0	4633.9	4635.3	4629.6	4543.2	4376.2	4115.7
27.5°	4645.2	4636.7	4602.7	4551.7	4614.0	4707.5	4713.1	4751.4	4697.6	4544.7	4302.6
30°	4758.4	4748.5	4676.3	4609.8	4689.1	4789.6	4803.7	4887.3	4860.4	4727.3	4510.7
32.5°	5023.2	4987.8	4827.8	4718.8	4778.3	4898.6	4917.0	5050.1	5092.6	4952.4	4711.7
35°	5385.6	5273.8	5043.0	4925.5	4931.2	5057.2	5074.2	5269.5	5395.5	5159.1	4867.5
37.5°	5885.4	5830.2	5455.0	5140.7	5166.2	5357.3	5406.9	5619.2	5583.8	5272.4	5044.4
40°	6981.2	6894.9	6495.6	5743.8	5391.3	5600.8	5616.4	5729.7	5732.5	5528.6	5412.5
42.5°	8473.5	8438.1	8017.6	6838.2	5834.4	5763.6	5792.0	5983.1	6196.9	6069.5	6063.8
45°	10125.7	10107.3	9661.3	8290.8	6730.6	6297.4	6332.8	6589.0	6998.2	7026.5	7206.3
47.5°	11455.1	11446.6	11190.3	9911.9	8102.5	7202.1	7213.4	7485.2	8204.5	8559.8	8847.2
50°	12667.0	12708.1	12505.6	11666.0	9971.4	8619.3	8592.4	8773.6	9928.9	10510.8	10867.5
52.5°	14351.8	14409.8	13842.1	13302.7	11932.2	10377.7	10356.4	10546.2	12001.6	12437.6	12501.4
55°	15839.8	15740.7	15291.9	15136.1	14323.5	12549.5	12543.8	12710.9	14006.3	14191.8	14309.3
57.5°	16496.7	16458.5	16675.1	17031.9	16828.0	15116.3	15103.6	14976.1	15800.1	15819.9	16181.0
60°	16911.5	16958.2	17622.2	18722.3	19230.6	17878.5	17796.4	17019.1	17513.2	17469.3	17855.8
62.5°	16600.0	16692.1	17887.0	19720.4	21028.6	20289.6	20173.5	18890.8	18977.1	18825.7	19185.3
65°	14946.4	15089.4	17047.4	19532.1	21920.6	22174.0	22056.5	20543.0	20139.5	19890.3	19690.7
67.5°	12136.1	12221.0	14265.4	17894.1	21518.5	23298.1	23274.0	21991.3	21017.3	19710.5	18161.7
69°	10029.4	10112.9	12080.9	16169.6	20633.6	23538.8	23585.5	22455.7	20850.2	18617.5	16091.8
70°	8494.7	8583.9	10417.3	14691.6	19607.2	23426.9	23510.5	22411.8	20371.7	17351.8	14275.3
72.5°	4455.5	4531.9	6413.5	10121.4	15984.2	21511.4	21764.8	20517.5	17268.3	12601.9	8440.9
75°	1400.2	1444.1	2504.5	5290.8	10944.0	16726.0	16784.1	16094.6	12262.1	6931.7	3515.4
77.5°	533.7	521.0	833.9	1949.5	5532.9	10532.0	10887.4	10057.7	6434.7	2450.7	811.2
80°	287.4	288.8	433.2	807.0	2367.2	5412.5	5712.7	4874.5	2286.5	764.5	186.9
82.5°	124.6	130.3	243.5	427.6	1087.3	1996.3	2146.3	1786.7	873.5	513.9	69.4
85°	26.9	29.7	117.5	232.2	443.1	560.6	587.5	579.1	556.4	399.3	26.9
87.5°	0.0	0.0	52.4	83.5	111.8	127.4	111.8	145.8	307.2	269.0	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°	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5	3025.5
2.5°	3028.4	3002.9	2959.0	2910.8	2876.9	2841.5	2813.2	2800.4	2786.3	2776.3	2789.1
5°	3022.7	2973.1	2888.2	2806.1	2746.6	2698.5	2658.8	2643.3	2627.7	2616.4	2614.9
7.5°	3072.2	3002.9	2872.6	2752.3	2660.3	2595.1	2541.3	2518.7	2500.3	2491.8	2484.7
10°	3167.1	3077.9	2903.8	2746.6	2627.7	2517.3	2401.2	2312.0	2253.9	2227.0	2217.1
12.5°	3290.3	3178.4	2963.2	2776.3	2603.6	2391.3	2144.9	1932.5	1795.2	1749.9	1723.0
15°	3434.7	3295.9	3041.1	2814.6	2515.8	2127.9	1710.3	1432.8	1305.4	1279.9	1251.6
17.5°	3573.4	3420.5	3134.5	2821.7	2323.3	1700.4	1253.0	1064.7	1015.1	1032.1	1036.4
20°	3695.2	3543.7	3226.6	2759.4	1973.6	1275.6	969.8	923.1	941.5	974.1	979.7
22.5°	3818.4	3662.6	3311.5	2595.1	1526.2	968.4	873.5	884.9	903.3	935.8	941.5
25°	3968.4	3807.0	3390.8	2293.6	1145.4	824.0	829.6	846.6	865.0	894.8	897.6
27.5°	4141.2	3989.7	3443.2	1901.4	849.5	757.4	775.8	801.3	819.7	848.1	853.7
30°	4370.5	4230.4	3460.2	1495.1	712.1	698.0	706.5	737.6	764.5	790.0	794.3
32.5°	4585.7	4468.2	3403.5	1128.4	659.8	642.8	642.8	661.2	692.3	716.4	722.0
35°	4783.9	4707.5	3222.3	825.4	620.1	591.8	577.6	577.6	597.5	617.3	622.9
37.5°	5045.8	5043.0	2929.3	658.3	581.9	549.3	519.6	496.9	489.9	494.1	496.9
40°	5494.7	5498.9	2547.0	590.4	549.3	505.4	460.1	419.1	380.8	368.1	366.7
42.5°	6195.5	6131.8	2146.3	557.8	521.0	460.1	392.2	337.0	277.5	259.1	257.7
45°	7308.3	6930.3	1721.6	528.1	491.3	409.2	324.2	249.2	201.0	186.9	186.9
47.5°	8929.3	7979.3	1333.7	495.5	451.6	351.1	244.9	179.8	147.2	140.2	141.6
50°	10605.6	9007.2	1022.2	454.5	403.5	290.2	181.2	130.3	111.8	111.8	113.3
52.5°	12092.2	9760.4	797.1	410.6	344.0	227.9	137.3	101.9	93.4	92.0	93.4
55°	13483.9	10246.0	610.2	359.6	273.2	169.9	104.8	83.5	77.9	75.0	73.6
57.5°	14826.1	10486.7	457.3	290.2	198.2	123.2	83.5	70.8	65.1	60.9	59.5
60°	15719.4	10291.3	314.3	213.8	137.3	89.2	69.4	60.9	53.8	49.6	48.1
62.5°	16223.4	9757.6	202.5	154.3	97.7	66.5	55.2	51.0	41.1	36.8	36.8
65°	16019.6	8877.0	141.6	110.4	70.8	49.6	41.1	41.1	29.7	24.1	22.7
67.5°	14196.0	7499.4	107.6	82.1	51.0	36.8	31.1	35.4	18.4	11.3	11.3
69°	12214.0	6215.3	92.0	68.0	42.5	29.7	26.9	32.6	12.7	8.5	7.1
70°	10615.5	5361.6	83.5	59.5	35.4	25.5	24.1	31.1	12.7	7.1	5.7
72.5°	6351.2	2990.1	63.7	42.5	22.7	19.8	19.8	35.4	12.7	7.1	5.7
75°	2566.8	1053.3	46.7	29.7	17.0	17.0	24.1	45.3	11.3	5.7	4.2
77.5°	581.9	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)