

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: P323769

Luminaire Tested: **GAN-SA5C-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23993 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 279
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

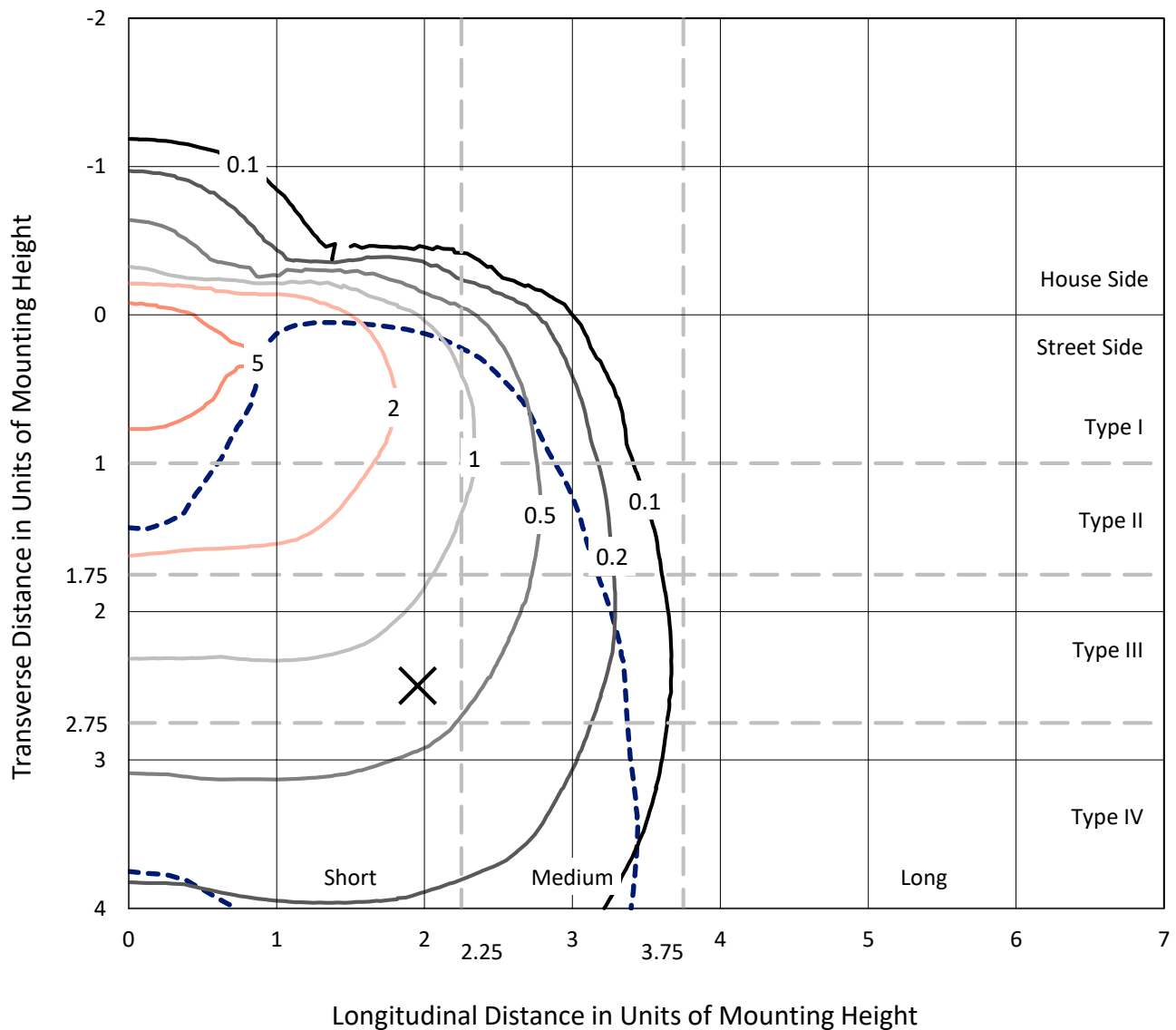


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Iso-Footcandle Lines of Horizontal Illumination

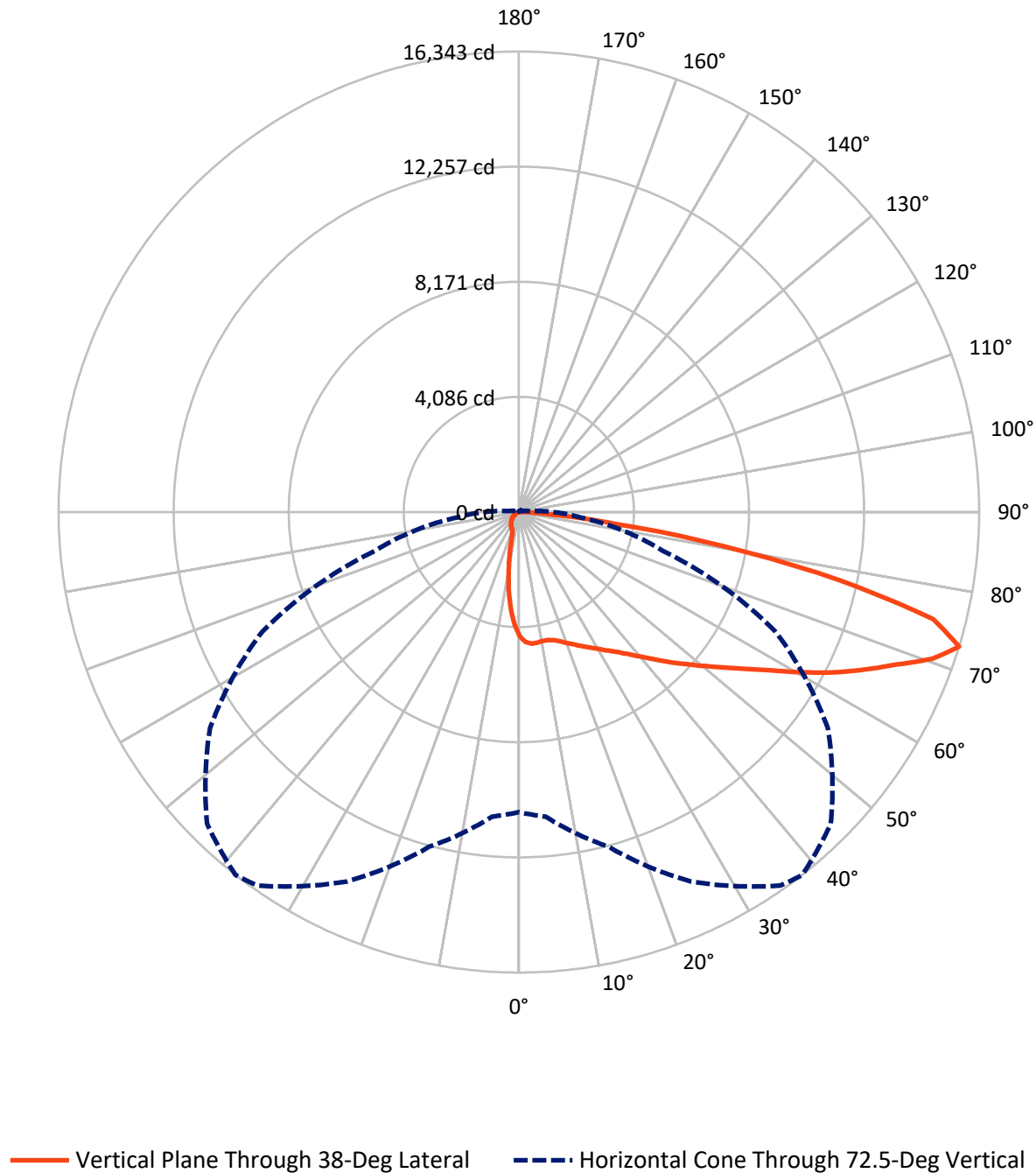
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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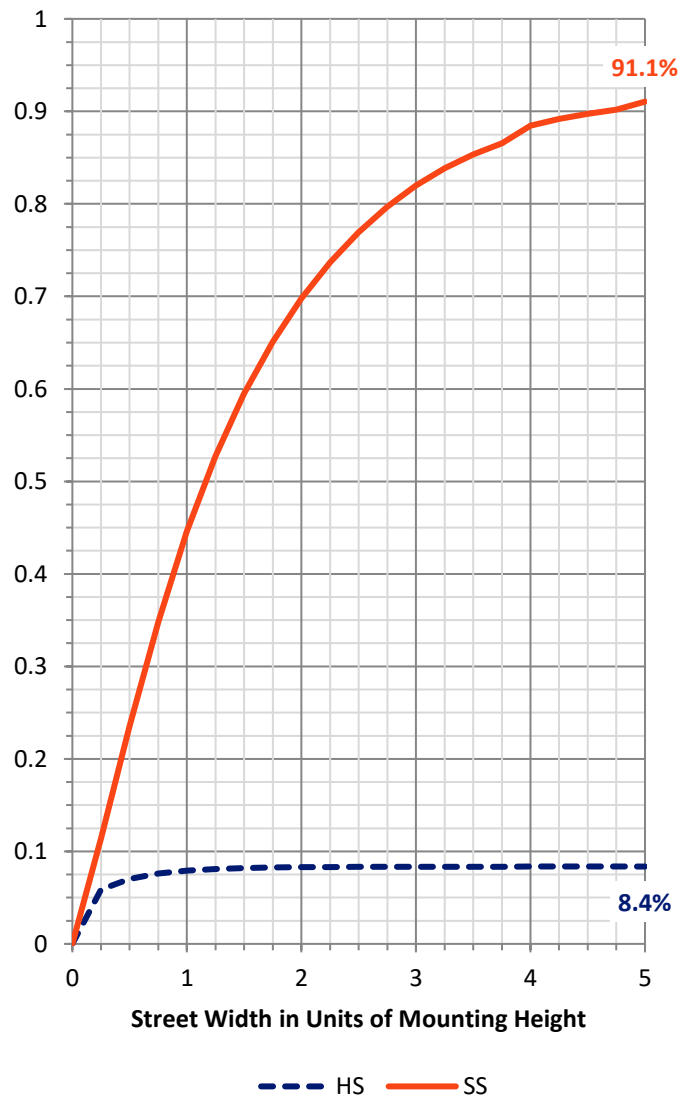
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2019.1	0.0	2019.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21973.9	0.0	21973.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	23993.0	0.0	23993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.0	1.6
10°-20°	919.4	3.8
20°-30°	1462.3	6.1
30°-40°	2198.4	9.2
40°-50°	3353.9	14.0
50°-60°	4740.2	19.8
60°-70°	5945.8	24.8
70°-80°	4445.8	18.5
80°-90°	551.3	2.3
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°	23993.0	100.0
0°-180°	23993.0	100.0

Coefficient of Utilization



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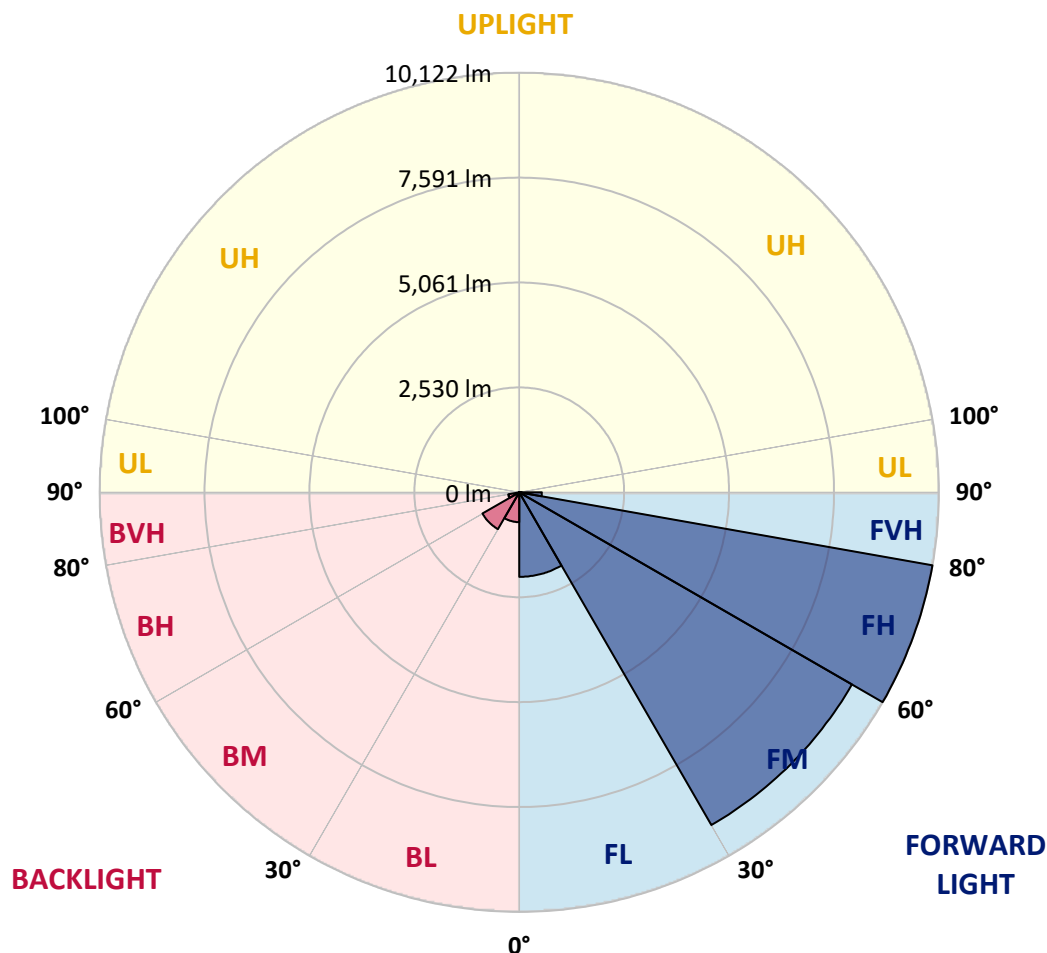
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2038.8	8.5			
FM	(30°-60°)	9267.2	38.6			
FH	(60°-80°)	10121.8	42.2			G4/12000
FVH	(80°-90°)	546.1	2.3			G4/750
BL	(0°-30°)	718.9	3.0	B2/1000		
BM	(30°-60°)	1025.3	4.3	B2/2500		
BH	(60°-80°)	269.7	1.1	B1/500		G1/500
BVH	(80°-90°)	5.1	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°	35°	38°	45°	55°	65°	75°	85°
0°	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2
2.5°	4683.3	4684.3	4673.3	4655.4	4632.4	4620.5	4600.6	4568.7	4534.8	4474.0	4408.2
5°	4778.9	4778.9	4765.0	4741.1	4704.2	4693.2	4655.4	4604.5	4534.8	4436.1	4325.5
7.5°	4769.0	4771.0	4752.0	4727.1	4690.2	4680.3	4634.4	4577.6	4491.0	4371.4	4229.9
10°	4717.1	4722.1	4707.2	4695.2	4661.3	4650.4	4607.5	4550.7	4464.0	4336.5	4174.1
12.5°	4664.3	4669.3	4674.3	4685.3	4664.3	4660.3	4626.5	4578.6	4495.9	4363.4	4180.1
15°	4630.5	4640.4	4676.3	4719.1	4724.1	4720.1	4698.2	4653.4	4569.7	4432.2	4222.9
17.5°	4630.5	4646.4	4721.1	4802.8	4831.7	4834.7	4815.8	4753.0	4653.4	4505.9	4262.8
20°	4669.3	4691.2	4807.8	4923.4	4971.2	4971.2	4934.4	4846.7	4730.1	4572.7	4289.7
22.5°	4769.0	4797.9	4944.3	5077.9	5128.7	5117.7	5067.9	4940.3	4809.8	4648.4	4323.6
25°	4965.3	4987.2	5139.6	5274.2	5305.0	5280.1	5217.4	5053.9	4911.4	4751.0	4385.3
27.5°	5218.4	5221.3	5378.8	5492.4	5473.4	5456.5	5377.8	5196.4	5057.9	4897.5	4491.9
30°	5496.4	5496.4	5634.9	5721.6	5663.8	5649.8	5571.1	5368.8	5245.3	5096.8	4643.4
32.5°	5765.4	5777.4	5890.0	5944.8	5880.0	5866.0	5789.3	5587.0	5494.4	5400.7	4879.6
35°	6025.5	6034.4	6141.1	6170.9	6109.2	6113.2	6058.4	5887.0	5852.1	5840.1	5235.3
37.5°	6277.6	6279.6	6388.2	6407.1	6376.2	6410.1	6415.1	6263.6	6328.4	6425.0	5736.5
40°	6507.7	6509.7	6617.4	6666.2	6719.0	6762.8	6801.7	6721.0	6935.2	7159.4	6333.4
42.5°	6692.1	6713.0	6849.5	6942.2	7081.7	7165.4	7271.0	7267.0	7657.6	7994.4	7054.8
45°	6854.5	6890.4	7080.7	7243.1	7482.3	7615.8	7781.2	7910.7	8470.7	8924.1	7785.2
47.5°	7068.7	7102.6	7319.8	7585.9	7904.8	8080.1	8354.1	8634.1	9364.5	9836.8	8498.6
50°	7370.7	7355.7	7570.0	7951.6	8361.1	8591.3	8981.9	9401.4	10251.4	10632.0	8918.1
52.5°	7692.5	7686.5	7845.0	8349.2	8899.2	9168.2	9684.4	10194.6	11099.3	11180.0	9110.4
55°	8091.1	8048.2	8181.8	8802.5	9537.9	9826.9	10434.7	10979.8	11774.9	11488.9	9207.1
57.5°	8508.6	8437.8	8565.4	9307.7	10258.3	10600.1	11265.7	11745.0	12224.3	11700.2	9206.1
60°	8940.1	8856.4	9007.8	9939.5	11153.1	11548.7	12166.5	12262.2	12643.8	11806.8	9138.3
62.5°	9300.8	9250.9	9476.1	10615.1	12152.6	12541.2	12847.1	12732.5	12997.6	11889.5	8979.9
65°	9682.4	9685.4	10049.1	11403.3	13214.8	13476.8	13502.8	13342.3	13293.5	11872.6	8443.8
67.5°	10198.6	10246.4	10853.2	12473.4	14248.1	14450.4	14448.4	14003.0	13509.7	11199.0	7255.1
70°	10744.6	10857.2	11779.9	13698.1	15376.1	15581.3	15475.7	14423.5	12720.5	9055.6	5134.7
72.5°	10652.9	10848.2	12295.1	14470.3	16186.2	16342.6	15656.1	13390.2	10054.1	5263.2	2186.2
75°	8218.6	8444.8	11273.7	13705.0	15336.2	15195.7	13451.9	10419.8	5494.4	1468.8	492.2
77.5°	4341.5	4462.1	7447.4	10440.7	11958.3	11664.3	9476.1	5780.3	1675.0	363.7	221.2
80°	2273.9	2301.8	3245.4	5923.8	7380.6	7382.6	5615.9	2538.9	690.5	186.3	148.5
82.5°	1217.6	1241.6	1714.9	2737.2	3867.2	3505.5	2150.3	1397.0	401.6	105.6	142.5
85°	293.0	297.9	972.5	1250.5	1520.6	1086.1	638.7	1172.8	108.6	61.8	115.6
87.5°	112.6	114.6	360.7	541.1	387.6	251.1	298.9	437.4	14.0	23.9	17.9
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°	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2	4412.2
2.5°	4368.4	4342.5	4278.7	4198.0	4126.3	4074.4	3996.7	3945.9	3912.0	3911.0	3898.1
5°	4257.8	4205.0	4067.5	3904.0	3755.6	3622.1	3464.6	3340.1	3247.4	3232.4	3200.6
7.5°	4139.2	4052.5	3841.3	3586.2	3337.1	3084.0	2790.0	2607.7	2451.2	2376.5	2368.5
10°	4066.5	3944.9	3645.0	3276.3	2885.7	2474.2	2089.5	1823.5	1631.2	1576.4	1535.5
12.5°	4051.5	3891.1	3493.5	2985.3	2427.3	1883.3	1457.8	1174.8	1021.4	972.5	959.6
15°	4066.5	3866.2	3366.0	2697.4	1963.0	1336.2	978.5	814.1	756.3	742.3	741.4
17.5°	4075.4	3836.3	3221.5	2377.5	1512.6	954.6	749.3	701.5	692.5	691.5	693.5
20°	4074.4	3790.5	3049.1	2020.8	1125.0	750.3	677.6	667.6	665.6	666.6	665.6
22.5°	4067.5	3736.6	2859.8	1653.1	850.0	670.6	646.7	640.7	639.7	639.7	639.7
25°	4080.4	3693.8	2651.5	1301.3	700.5	633.7	618.8	613.8	612.8	612.8	610.8
27.5°	4127.3	3669.9	2423.3	1001.4	632.7	600.9	588.9	587.9	584.9	583.9	585.9
30°	4203.0	3669.9	2173.2	779.2	591.9	567.0	558.0	556.0	555.0	554.0	555.0
32.5°	4336.5	3697.8	1900.2	647.7	553.0	529.1	523.1	526.1	523.1	523.1	523.1
35°	4577.6	3781.5	1614.2	565.0	512.2	492.2	486.3	490.2	488.3	488.3	487.3
37.5°	4929.4	3936.9	1326.3	515.2	476.3	455.4	447.4	453.4	451.4	451.4	450.4
40°	5357.9	4163.1	1052.2	477.3	441.4	419.5	412.5	415.5	410.5	410.5	412.5
42.5°	5887.0	4450.1	813.1	440.4	406.5	385.6	381.6	378.6	369.7	364.7	365.7
45°	6474.9	4749.0	633.7	404.6	373.7	356.7	350.7	342.8	327.8	317.9	318.9
47.5°	7000.0	4979.2	515.2	369.7	343.8	330.8	321.8	306.9	285.0	273.0	274.0
50°	7276.0	5014.1	438.4	334.8	315.9	302.9	290.0	267.0	241.1	228.2	227.2
52.5°	7346.7	4850.7	381.6	302.9	288.0	273.0	256.1	225.2	196.3	182.3	180.4
55°	7372.7	4601.6	330.8	273.0	258.1	241.1	219.2	184.3	157.4	143.5	142.5
57.5°	7287.0	4229.9	291.0	246.1	228.2	207.3	180.4	147.5	121.6	110.6	110.6
60°	7096.6	3726.7	260.1	217.2	197.3	173.4	145.5	114.6	90.7	81.7	81.7
62.5°	6717.0	3075.0	231.2	187.3	168.4	143.5	117.6	86.7	63.8	58.8	59.8
65°	6000.6	2332.7	202.3	160.4	143.5	118.6	91.7	61.8	42.8	42.8	44.8
67.5°	4893.5	1620.2	172.4	136.5	123.6	96.7	69.8	42.8	29.9	33.9	37.9
70°	3239.4	908.8	147.5	112.6	105.6	76.7	51.8	28.9	23.9	31.9	38.9
72.5°	1222.6	353.7	123.6	90.7	91.7	58.8	36.9	21.9	21.9	34.9	45.8
75°	340.8	173.4	88.7	66.8	71.7	42.8	26.9	18.9	20.9	39.9	53.8
77.5°	200.3	127.5	57.8	38.9	48.8	29.9	17.9	14.9	17.9	33.9	51.8
80°	161.4	67.8	33.9	19.9	26.9	16.9	12.0	9.0	5.0	13.0	26.9
82.5°	161.4	40.9	15.9	14.0	14.0	9.0	6.0	4.0	1.0	0.0	7.0
85°	108.6	16.9	10.0	9.0	7.0	3.0	2.0	1.0	0.0	0.0	0.0
87.5°	17.9	7.0	4.0	2.0	1.0	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)