

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: P323359

Luminaire Tested: **GAN-SA5B-830-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18799 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

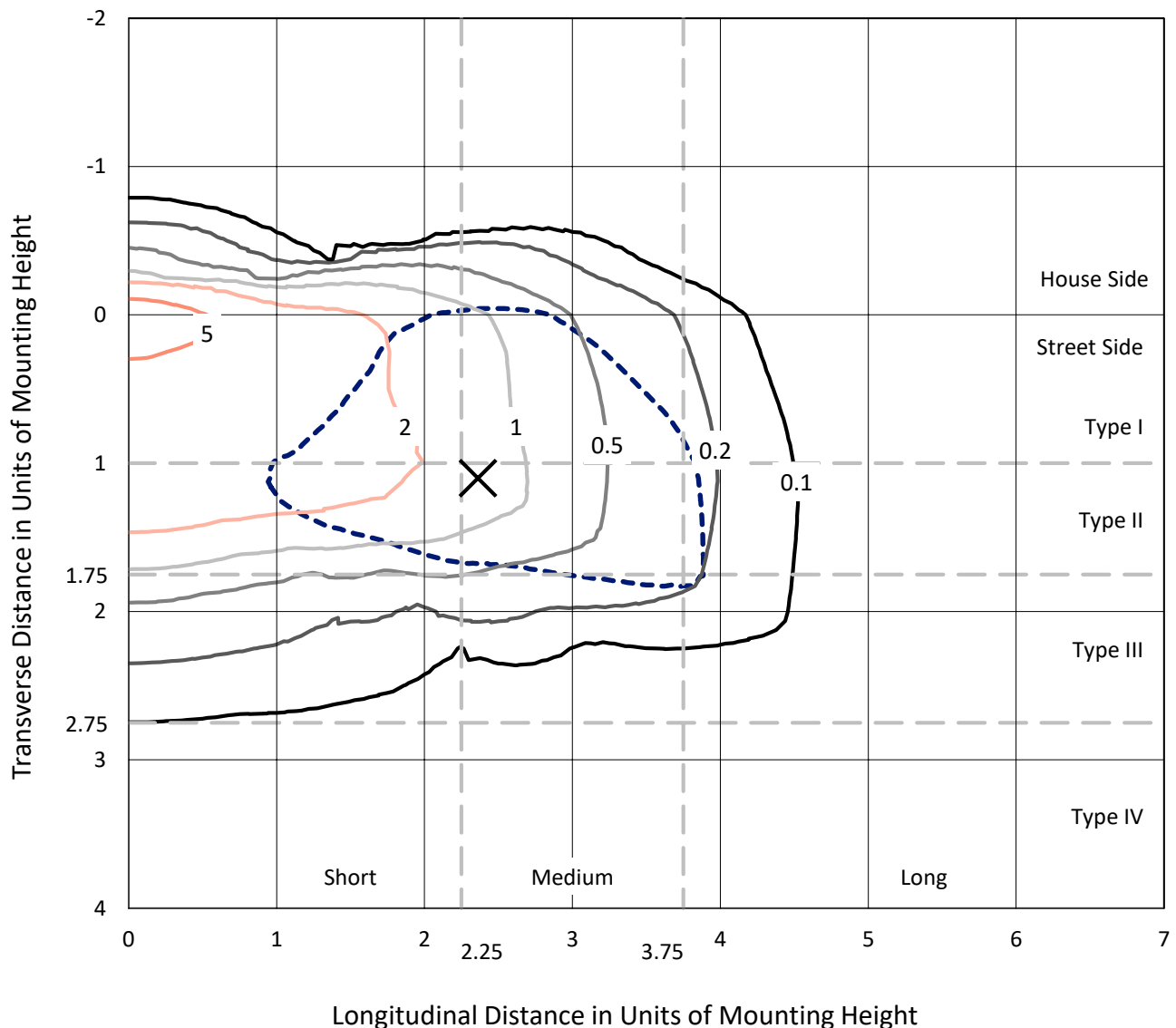
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

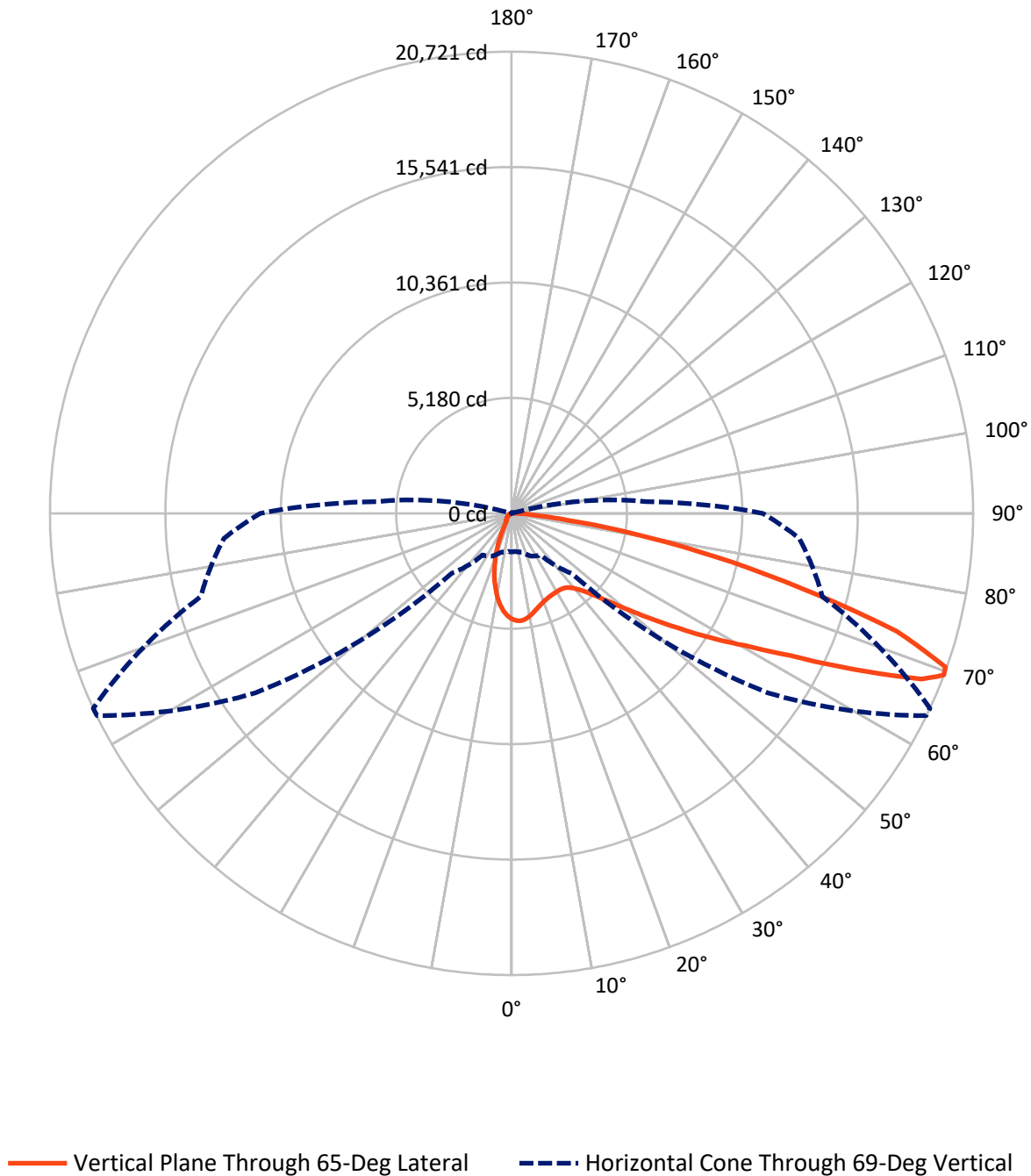
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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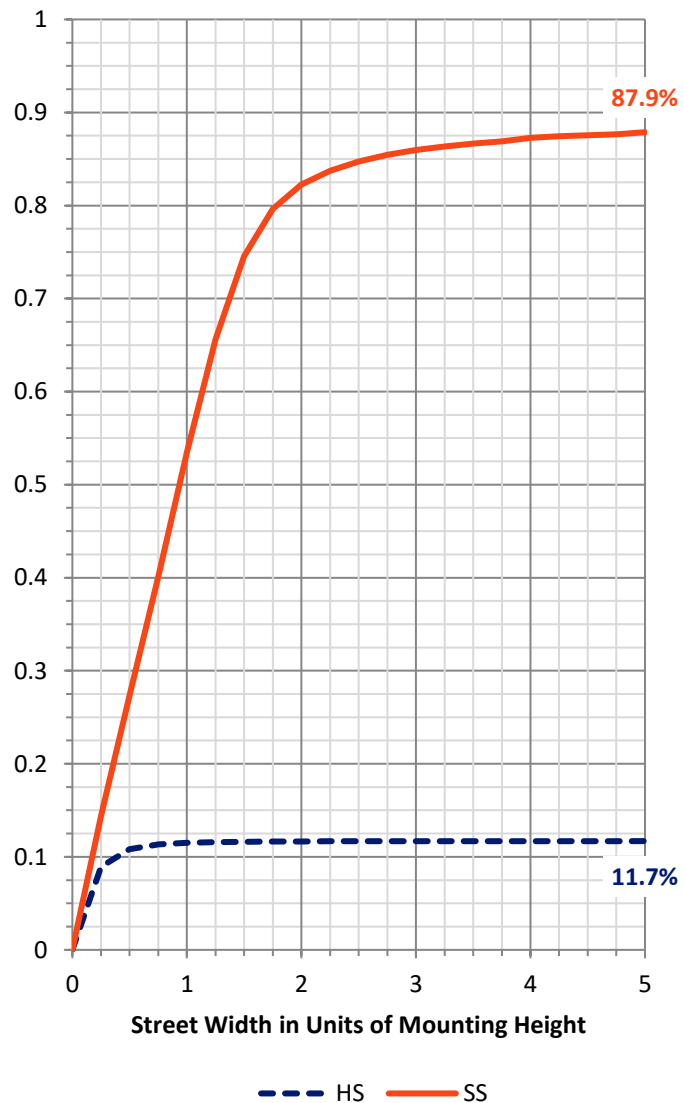
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2216.0	0.0	2216.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	16583.0	0.0	16583.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	18799.0	0.0	18799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.2	2.1
10°-20°	869.6	4.6
20°-30°	1204.4	6.4
30°-40°	1679.3	8.9
40°-50°	2610.2	13.9
50°-60°	4190.4	22.3
60°-70°	4740.1	25.2
70°-80°	2783.9	14.8
80°-90°	323.8	1.7
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°	18799.0	100.0
0°-180°	18799.0	100.0

Coefficient of Utilization



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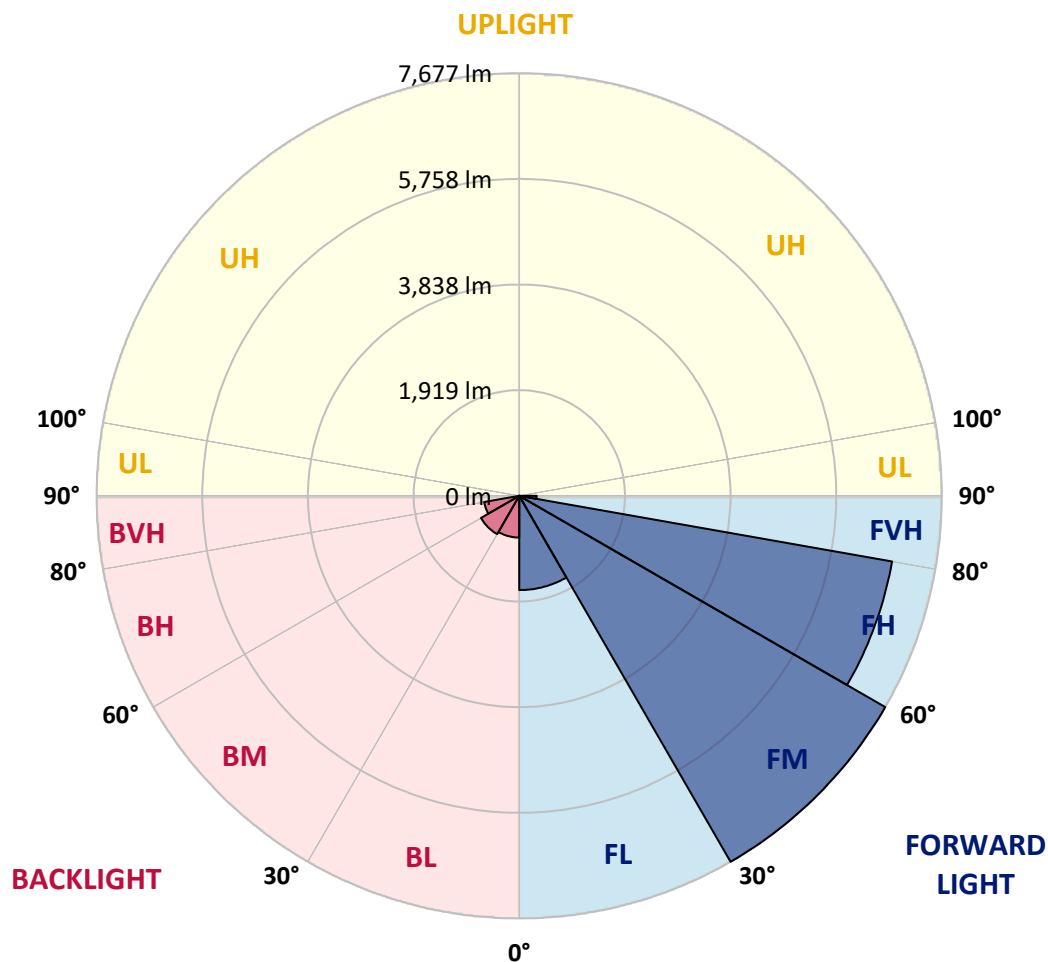
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1713.0	9.1			
FM	(30°-60°)	7677.0	40.8			
FH	(60°-80°)	6876.5	36.6			G3/7500
FVH	(80°-90°)	316.6	1.7			G3/500
BL	(0°-30°)	758.2	4.0	B2/1000		
BM	(30°-60°)	803.0	4.3	B1/1000		
BH	(60°-80°)	647.5	3.4	B2/1000		G2/1000
BVH	(80°-90°)	7.3	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-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5
2.5°	4792.7	4780.8	4790.3	4811.0	4821.3	4821.3	4829.3	4819.7	4822.9	4799.9	4766.4
5°	4492.8	4474.5	4500.8	4558.8	4630.4	4691.7	4782.4	4830.1	4834.9	4835.7	4796.7
7.5°	4169.8	4153.1	4192.1	4260.5	4352.8	4466.6	4624.9	4763.3	4771.2	4846.0	4817.4
10°	3907.3	3895.4	3940.8	4013.9	4122.1	4249.4	4443.5	4636.0	4659.1	4824.5	4814.2
12.5°	3698.9	3689.4	3732.3	3816.7	3927.2	4068.0	4270.9	4494.4	4525.4	4776.0	4798.3
15°	3547.0	3545.4	3581.2	3662.3	3784.8	3916.1	4123.7	4363.1	4398.9	4723.5	4795.9
17.5°	3467.4	3469.8	3496.1	3565.3	3670.3	3800.8	3999.6	4252.6	4291.6	4676.6	4807.8
20°	3459.5	3461.9	3476.2	3515.2	3600.3	3715.6	3898.6	4159.5	4200.1	4641.6	4826.9
22.5°	3529.5	3527.9	3531.9	3527.9	3575.6	3663.1	3831.8	4087.9	4134.8	4618.5	4842.0
25°	3663.9	3661.5	3660.0	3630.5	3598.7	3645.6	3803.9	4047.3	4091.9	4601.8	4850.8
27.5°	3850.9	3849.3	3846.9	3798.4	3702.9	3673.5	3807.1	4032.2	4069.6	4588.3	4849.2
30°	4096.7	4107.8	4104.6	4037.0	3888.3	3758.6	3840.5	4024.3	4056.9	4562.0	4832.5
32.5°	4385.4	4407.7	4425.2	4352.8	4166.7	3927.2	3917.7	4033.0	4056.9	4542.1	4802.2
35°	4685.3	4713.9	4778.4	4752.9	4507.9	4181.0	4050.5	4085.5	4105.4	4553.3	4787.9
37.5°	4980.4	5014.6	5154.6	5228.6	4955.0	4516.7	4257.3	4215.2	4225.5	4620.9	4803.8
40°	5323.3	5375.0	5587.4	5706.7	5488.7	4966.1	4566.8	4437.9	4441.9	4769.6	4877.8
42.5°	5773.5	5826.8	6056.7	6243.6	6090.1	5534.1	4986.8	4778.4	4774.4	5048.0	5052.0
45°	6322.4	6378.1	6615.9	6823.5	6754.3	6207.0	5524.5	5275.5	5270.8	5487.1	5382.1
47.5°	6944.4	6999.3	7211.7	7425.7	7500.5	6993.0	6209.4	5954.1	5942.9	6097.3	5892.0
50°	7478.2	7514.0	7709.7	7997.6	8334.9	7958.7	7061.4	6815.6	6803.6	6907.9	6640.6
52.5°	7672.3	7693.0	7891.8	8295.1	9136.8	9266.4	8180.6	7864.0	7855.3	7900.6	7637.3
55°	7279.3	7316.7	7560.9	8159.1	9571.1	10744.4	9593.4	9162.2	9096.2	8998.3	8679.4
57.5°	6208.6	6268.3	6530.8	7326.3	9368.2	11916.9	11669.5	10630.6	10533.6	9935.4	9526.5
60°	4651.9	4725.1	4943.0	5801.4	8285.6	12334.5	13938.2	12266.9	12048.2	10681.6	10305.3
62.5°	3192.2	3228.8	3376.8	3936.0	6102.0	11650.4	15836.2	14458.4	14059.1	11492.9	11147.7
65°	2438.1	2450.8	2511.3	2703.8	3633.7	9463.7	16591.1	17350.0	16867.1	12463.4	12021.9
67.5°	1964.8	1954.5	2038.0	2313.2	2433.3	5773.5	15710.5	20085.6	19859.7	13760.8	12901.7
69°	1732.5	1718.2	1803.3	2123.1	2285.4	3816.7	14044.8	20706.9	20721.2	14445.7	12962.2
70°	1559.1	1568.7	1653.0	2010.1	2235.3	2995.7	12453.9	20548.6	20661.5	14701.9	12599.4
72.5°	1041.3	1066.7	1236.2	1668.9	2149.4	2267.1	7519.6	17633.2	18067.5	14125.1	10809.6
75°	587.1	606.1	807.4	1258.4	2025.3	2158.9	3971.8	12990.8	13410.8	11811.9	8335.7
77.5°	288.0	298.3	456.6	812.2	1693.6	2057.1	2252.8	8824.1	9303.8	7709.7	4714.7
80°	121.7	127.3	228.3	501.1	1210.7	1963.2	1672.9	5430.7	5490.3	3020.4	1256.0
82.5°	46.9	48.5	96.3	312.6	769.2	1530.5	1399.2	2574.9	2512.9	568.8	286.4
85°	5.6	6.4	35.0	187.7	428.0	787.5	1136.7	1109.7	1027.0	113.0	147.2
87.5°	0.0	0.0	2.4	57.3	127.3	369.1	591.0	460.6	415.2	36.6	76.4
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°	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5	4750.5
2.5°	4738.6	4730.7	4687.7	4625.7	4566.8	4493.6	4423.6	4381.4	4348.0	4325.8	4352.0
5°	4751.3	4716.3	4585.9	4418.8	4255.0	4070.4	3898.6	3753.0	3695.7	3632.1	3660.7
7.5°	4747.4	4681.3	4446.7	4149.2	3848.5	3537.5	3243.1	3016.4	2898.7	2783.3	2812.8
10°	4727.5	4616.1	4260.5	3819.8	3369.6	2922.6	2504.9	2187.5	2010.1	1849.5	1872.5
12.5°	4683.7	4528.6	4041.0	3442.8	2840.6	2251.2	1762.0	1355.5	1137.5	1041.3	1053.2
15°	4657.5	4443.5	3808.7	3061.0	2275.8	1567.9	1077.1	801.0	701.6	669.8	673.8
17.5°	4644.7	4361.6	3568.5	2624.3	1698.3	998.3	696.0	614.1	592.6	587.1	588.6
20°	4632.0	4278.8	3321.1	2192.3	1170.1	671.4	571.9	548.1	540.1	533.0	534.6
22.5°	4610.5	4199.3	3055.4	1754.8	789.1	544.9	515.5	492.4	475.7	466.9	468.5
25°	4584.3	4115.8	2784.1	1307.0	575.9	486.0	458.2	425.6	405.7	389.8	390.6
27.5°	4542.1	4013.1	2504.1	951.4	483.6	435.1	397.7	361.9	328.5	310.2	310.2
30°	4483.3	3897.0	2193.1	680.9	433.5	385.0	339.7	295.1	259.3	242.6	241.0
32.5°	4418.0	3776.1	1878.9	516.3	393.8	338.1	286.4	239.4	207.6	194.1	193.3
35°	4362.4	3645.6	1565.5	432.7	354.0	292.7	236.3	196.5	171.0	159.9	159.1
37.5°	4326.6	3515.2	1260.0	386.6	318.2	250.6	198.1	162.3	144.0	135.2	134.4
40°	4321.0	3418.1	980.8	351.6	284.8	213.2	165.5	137.6	120.9	111.4	110.6
42.5°	4393.4	3362.4	752.5	322.2	250.6	180.6	140.8	117.7	100.2	90.7	89.9
45°	4583.5	3379.9	579.1	295.9	216.4	152.7	119.3	97.8	81.9	74.8	73.2
47.5°	4930.3	3500.9	460.6	269.7	183.8	129.7	101.8	81.1	67.6	60.5	59.7
50°	5547.6	3784.8	385.0	241.0	153.5	110.6	84.3	66.0	54.9	48.5	47.7
52.5°	6366.9	4290.8	343.6	213.2	127.3	93.9	69.2	52.5	43.0	38.2	37.4
55°	7270.6	4903.3	316.6	183.0	104.2	78.0	54.9	41.4	33.4	29.4	27.8
57.5°	8152.8	5433.8	291.1	153.5	86.7	63.6	43.8	32.6	26.3	22.3	21.5
60°	8963.3	5921.5	261.7	123.3	70.8	50.1	34.2	25.5	20.7	16.7	16.7
62.5°	9831.2	6298.5	221.1	96.3	58.1	38.2	27.8	23.1	16.7	14.3	13.5
65°	10750.8	6578.5	173.4	74.8	45.3	28.6	23.1	23.9	13.5	10.3	9.5
67.5°	11430.1	6522.8	128.1	58.9	35.0	22.3	22.3	25.5	11.9	8.0	7.2
69°	11280.5	6070.2	107.4	50.9	30.2	19.1	20.7	25.5	11.1	7.2	6.4
70°	10847.0	5569.1	94.7	45.3	27.0	17.5	19.9	24.7	10.3	7.2	6.4
72.5°	9033.3	4194.5	74.0	34.2	21.5	14.3	16.7	21.5	10.3	7.2	5.6
75°	6794.9	2684.7	56.5	24.7	15.9	11.1	12.7	15.9	10.3	6.4	5.6
77.5°	3697.3	968.1	40.6	16.7	11.1	8.8	8.8	11.9	9.5	4.8	3.2
80°	950.6	243.4	25.5	11.1	8.8	6.4	5.6	8.0	5.6	0.8	0.0
82.5°	234.7	54.9	13.5	8.0	6.4	2.4	2.4	4.0	2.4	0.0	0.0
85°	128.9	27.0	8.8	5.6	3.2	0.0	0.0	0.8	0.0	0.0	0.0
87.5°	66.0	8.0	2.4	1.6	0.8	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)