

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: P319817

Luminaire Tested: **GAN-SA3D-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17415 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

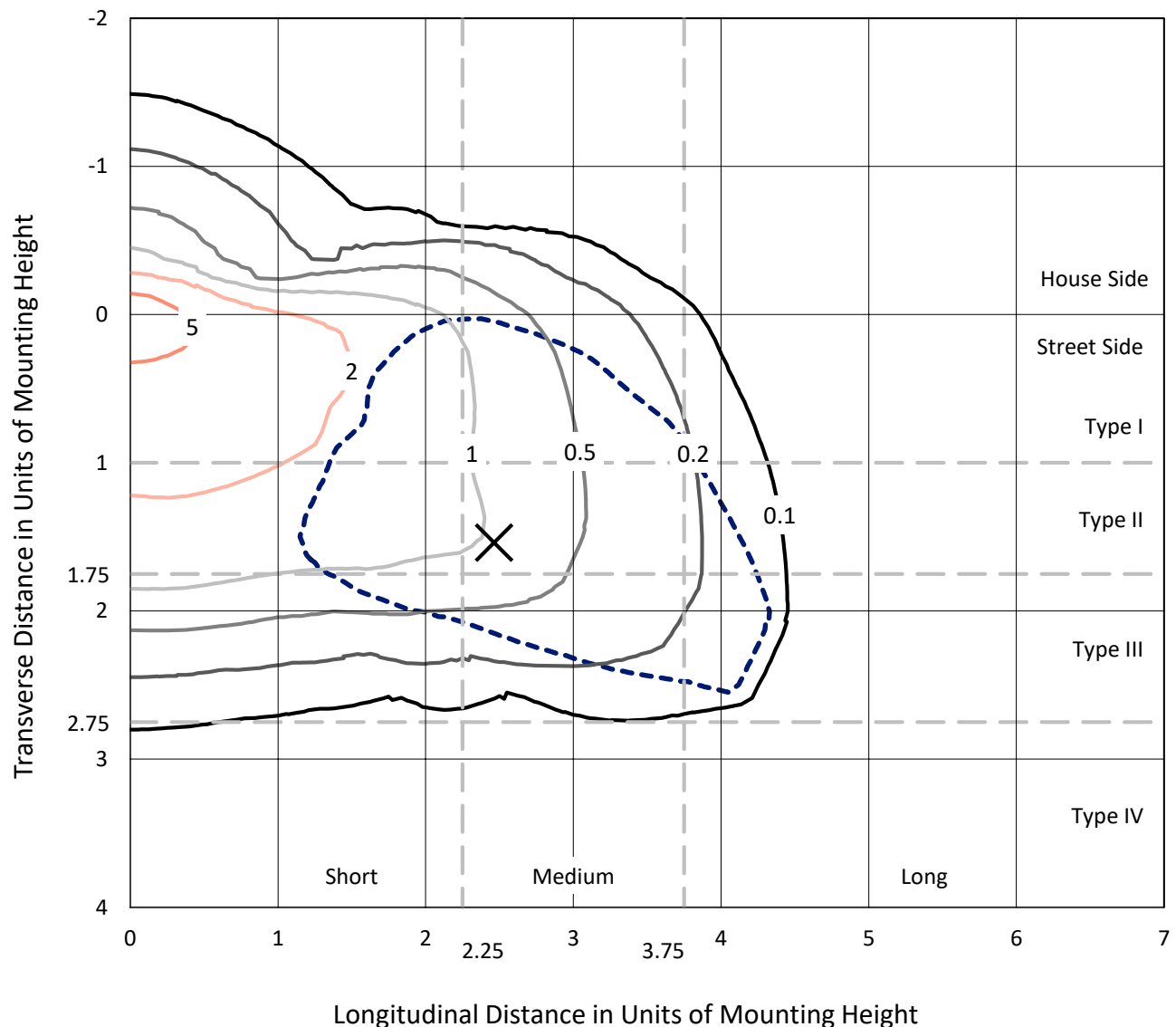
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

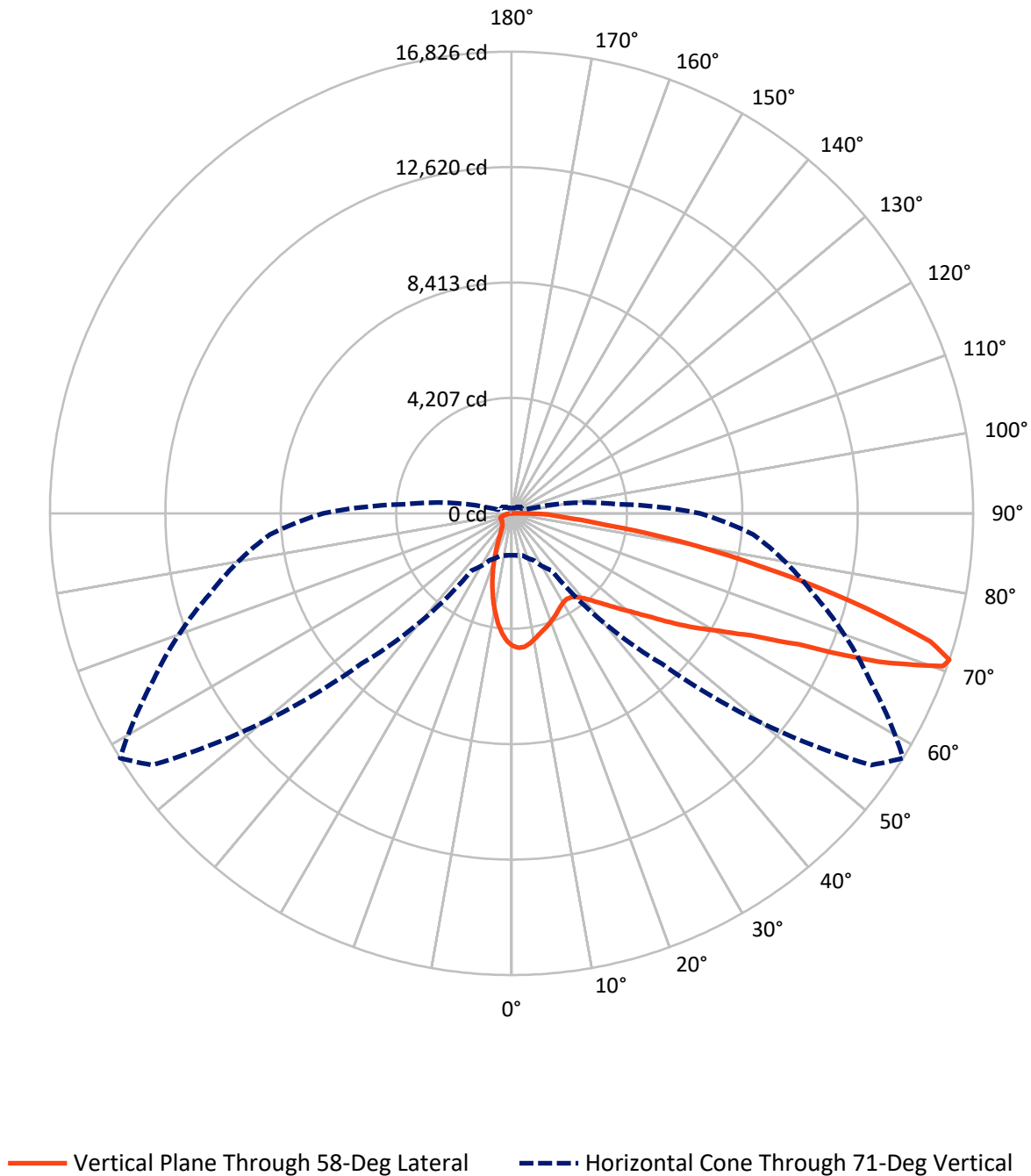
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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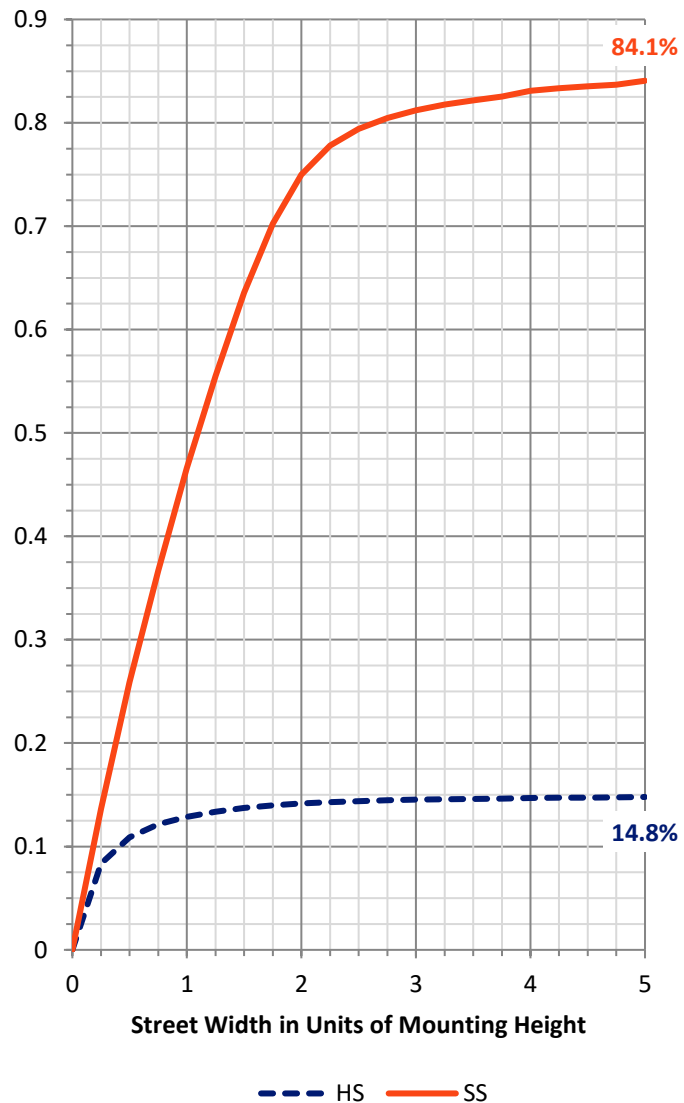
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2603.7	0.0	2603.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	14811.3	0.0	14811.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	17415.0	0.0	17415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.3	2.4
10°-20°	925.6	5.3
20°-30°	1176.4	6.8
30°-40°	1498.4	8.6
40°-50°	2124.9	12.2
50°-60°	3288.3	18.9
60°-70°	4476.6	25.7
70°-80°	2986.4	17.1
80°-90°	522.1	3.0
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°	17415.0	100.0
0°-180°	17415.0	100.0

Coefficient of Utilization



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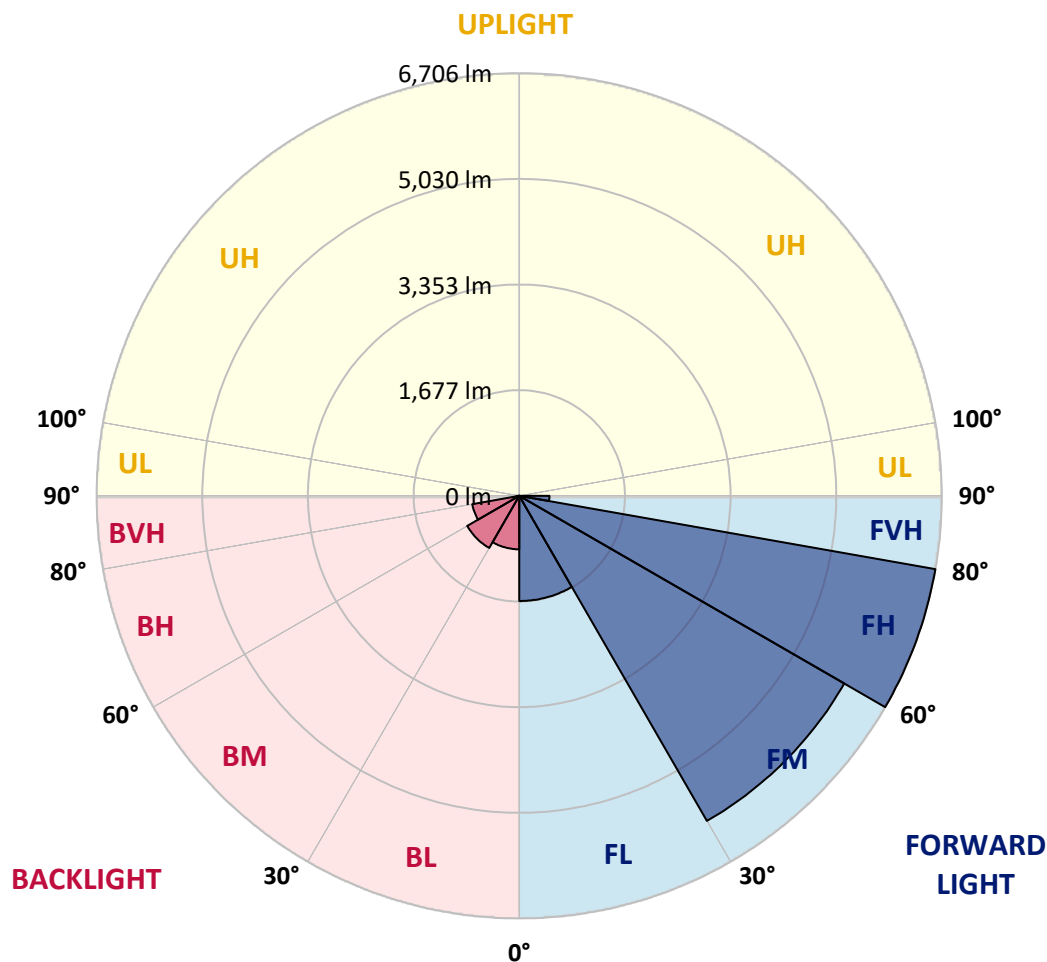
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1669.5	9.6			
FM	(30°-60°)	5956.8	34.2			
FH	(60°-80°)	6706.3	38.5			G3/7500
FVH	(80°-90°)	478.8	2.7			G3/500
BL	(0°-30°)	848.7	4.9	B2/1000		
BM	(30°-60°)	954.8	5.5	B1/1000		
BH	(60°-80°)	756.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	43.4	0.2			G1/100
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°	58°	65°	75°	85°
0°	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1
2.5°	4953.1	4946.4	4948.9	4944.0	4932.5	4921.0	4904.0	4907.0	4883.4	4848.2	4804.5
5°	4859.7	4857.3	4875.5	4885.8	4894.3	4887.6	4882.7	4888.8	4854.2	4805.7	4729.9
7.5°	4663.8	4637.1	4660.1	4694.7	4727.5	4752.3	4785.1	4789.3	4767.5	4716.5	4617.0
10°	4385.3	4359.8	4393.8	4447.8	4513.3	4572.8	4638.9	4651.0	4655.3	4609.2	4488.4
12.5°	4096.6	4077.1	4111.1	4186.9	4295.5	4387.1	4492.7	4510.9	4548.5	4517.6	4369.5
15°	3838.1	3830.9	3872.1	3946.7	4071.7	4211.8	4364.1	4397.4	4461.1	4450.8	4276.7
17.5°	3614.9	3613.1	3644.6	3722.9	3861.2	4038.3	4236.1	4292.5	4387.1	4399.3	4200.3
20°	3448.7	3445.0	3466.9	3524.5	3667.1	3867.9	4097.8	4175.4	4311.9	4354.4	4121.4
22.5°	3359.5	3358.9	3359.5	3386.8	3503.3	3690.1	3963.1	4057.7	4238.5	4318.6	4034.1
25°	3344.3	3342.5	3329.2	3326.1	3392.3	3541.5	3829.6	3934.0	4168.7	4293.7	3951.0
27.5°	3383.8	3386.2	3368.6	3340.1	3353.4	3443.8	3713.8	3825.4	4112.9	4288.9	3893.3
30°	3465.7	3464.5	3449.3	3419.6	3393.5	3407.4	3631.3	3742.9	4075.3	4310.1	3853.9
32.5°	3556.1	3562.7	3559.7	3543.3	3504.5	3448.7	3606.4	3715.6	4064.4	4361.0	3836.9
35°	3664.6	3671.9	3693.8	3706.5	3661.0	3571.2	3659.8	3754.4	4096.0	4456.9	3864.2
37.5°	3767.8	3786.6	3847.8	3901.8	3863.0	3762.9	3801.7	3869.1	4193.6	4607.9	3937.6
40°	3886.7	3903.0	4003.1	4117.8	4111.7	4008.0	4030.4	4075.3	4365.9	4824.5	4070.5
42.5°	4003.7	4036.5	4181.5	4344.1	4390.8	4299.2	4335.0	4358.6	4608.6	5111.4	4302.2
45°	4159.6	4194.8	4396.2	4592.2	4701.4	4649.8	4706.8	4715.9	4913.7	5502.1	4638.9
47.5°	4395.6	4435.7	4670.4	4876.1	5042.9	5048.4	5142.4	5138.7	5294.6	5949.2	5062.9
50°	4763.2	4820.9	5013.2	5205.5	5408.1	5520.9	5646.5	5628.9	5751.4	6425.4	5551.3
52.5°	5244.9	5271.6	5414.2	5556.1	5807.9	6060.8	6241.0	6225.2	6269.5	6915.0	6105.7
55°	5744.2	5764.2	5823.0	5900.7	6239.2	6651.7	7032.6	7007.8	6895.5	7423.3	6653.5
57.5°	6193.1	6233.7	6274.4	6306.5	6673.5	7269.2	7842.5	7844.3	7575.0	7971.7	7219.5
60°	6262.8	6298.6	6567.4	6820.9	7416.6	8093.0	8709.4	8691.2	8278.0	8566.8	7850.4
62.5°	5536.1	5616.8	6065.7	6740.2	8132.5	9599.9	9815.2	9792.8	9118.8	9300.2	8585.0
65°	3967.3	4058.9	4600.7	5614.3	7785.5	11260.2	11811.0	11508.9	10265.4	10202.3	9445.2
67.5°	2288.8	2310.6	2545.4	3359.5	5928.0	11347.0	14855.7	14432.9	12045.8	11225.7	9866.2
70°	1692.5	1691.9	1747.7	2067.4	3207.8	9260.8	16303.7	16682.9	13920.3	11562.3	9271.1
71°	1530.5	1532.3	1594.8	1881.8	2540.6	7751.5	15996.2	16826.0	14414.1	11396.1	8840.4
72.5°	1309.1	1315.2	1401.9	1687.6	2137.2	5345.6	14671.3	15967.1	14648.2	10986.0	8166.4
75°	993.1	1007.0	1127.1	1422.5	1953.3	2711.0	10767.6	12750.1	13012.8	9693.9	6068.1
77.5°	708.5	724.3	860.2	1196.3	1856.9	2043.1	7211.0	9300.2	9576.2	6212.5	2737.1
80°	447.7	466.5	569.0	951.8	1744.7	1940.0	4531.5	6251.3	5221.9	1987.9	696.4
82.5°	262.7	277.2	353.1	621.8	1425.0	1868.4	2666.1	3465.1	2032.2	600.6	316.7
85°	152.3	158.9	220.2	396.1	1034.9	1763.5	1958.8	1937.0	882.0	293.6	149.8
87.5°	71.0	78.9	130.4	206.9	574.5	1278.2	1548.1	1337.6	548.4	137.7	70.4
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°	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1	4825.1
2.5°	4783.3	4772.9	4729.9	4691.7	4651.6	4599.5	4541.8	4534.5	4499.4	4506.0	4493.9
5°	4688.6	4662.5	4558.8	4464.8	4353.8	4254.3	4146.3	4096.6	4025.0	4020.1	4001.9
7.5°	4553.3	4504.8	4344.1	4165.7	3987.4	3817.5	3649.5	3539.1	3426.2	3378.3	3374.1
10°	4401.1	4318.6	4082.0	3818.1	3560.9	3312.8	3072.6	2894.8	2734.7	2658.9	2655.8
12.5°	4256.7	4134.8	3810.2	3451.1	3099.3	2777.7	2448.4	2214.8	2014.0	1946.7	1918.2
15°	4134.2	3962.5	3545.7	3086.5	2659.5	2213.0	1838.1	1592.4	1406.8	1342.5	1330.3
17.5°	4015.3	3794.5	3274.6	2718.3	2202.1	1711.3	1335.8	1153.2	1054.3	1028.2	1027.6
20°	3897.0	3621.6	2991.3	2341.6	1759.8	1280.0	1027.0	945.1	911.8	908.7	903.9
22.5°	3762.9	3438.4	2693.4	1963.7	1373.4	1006.4	872.9	840.2	835.9	846.9	846.9
25°	3637.3	3256.4	2391.3	1593.6	1068.3	839.6	779.5	772.8	784.4	803.8	805.6
27.5°	3520.3	3081.1	2096.5	1264.8	856.0	739.5	714.6	722.5	743.1	765.6	766.2
30°	3423.8	2915.5	1810.2	996.7	723.1	664.9	660.6	676.4	698.8	716.4	720.7
32.5°	3349.2	2774.1	1533.6	801.4	636.4	609.1	612.7	626.0	640.0	649.7	656.4
35°	3314.6	2652.8	1278.2	675.8	581.1	566.0	570.8	578.1	584.2	591.5	596.9
37.5°	3320.7	2558.8	1050.1	597.5	544.1	536.3	536.3	536.3	536.3	539.9	540.5
40°	3377.1	2504.8	864.4	547.8	519.3	510.8	504.1	498.0	493.2	495.6	494.4
42.5°	3521.5	2499.9	728.6	516.2	499.3	485.3	472.0	463.5	457.4	459.8	461.0
45°	3766.6	2560.6	637.0	493.8	480.4	459.2	442.2	433.1	428.9	436.8	438.0
47.5°	4083.8	2692.8	581.1	477.4	462.9	435.0	416.8	408.3	409.5	421.0	424.0
50°	4492.7	2907.6	554.5	467.1	450.7	414.3	395.5	388.2	391.9	408.3	411.9
52.5°	4941.6	3216.9	557.5	464.1	442.8	399.2	379.1	370.6	376.7	391.9	394.9
55°	5459.7	3588.8	607.8	468.3	431.3	389.5	365.8	351.2	356.1	370.0	372.5
57.5°	6035.3	4014.7	709.1	467.1	416.8	380.4	351.8	330.0	333.6	342.1	344.6
60°	6634.7	4529.1	866.3	470.7	410.1	369.4	333.0	305.7	304.5	311.8	313.0
62.5°	7354.2	5124.2	1045.8	473.2	414.3	355.5	308.2	281.5	277.8	279.7	280.9
65°	8095.5	5554.9	978.5	463.5	427.7	344.0	286.3	257.8	251.1	249.9	250.5
67.5°	8118.5	5093.2	686.1	444.1	433.1	337.9	269.9	237.8	226.9	222.6	222.0
70°	7280.7	4137.8	534.4	423.4	411.3	328.2	254.8	221.4	205.0	198.4	197.8
71°	6871.9	3809.0	506.5	413.1	394.9	318.5	248.1	214.1	197.2	189.9	188.7
72.5°	6230.7	3414.7	472.6	396.7	363.4	293.6	235.4	203.8	186.2	177.7	175.9
75°	4471.5	2233.0	405.8	353.7	300.9	234.2	206.3	183.2	168.0	157.7	156.5
77.5°	1722.8	888.7	307.0	294.2	230.5	183.2	169.9	158.3	147.4	137.1	136.5
80°	532.6	397.3	223.8	221.4	166.8	136.5	132.2	129.2	125.0	114.0	111.6
82.5°	284.5	228.1	154.1	143.2	109.2	91.0	95.8	97.1	97.7	86.1	84.9
85°	135.9	120.7	86.7	81.3	63.7	51.0	58.8	63.7	64.3	52.8	49.1
87.5°	64.9	63.1	40.6	30.9	23.7	17.0	20.6	25.5	27.9	20.0	17.6
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)