

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: P319269

Luminaire Tested: **GAN-SA5A-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19082 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

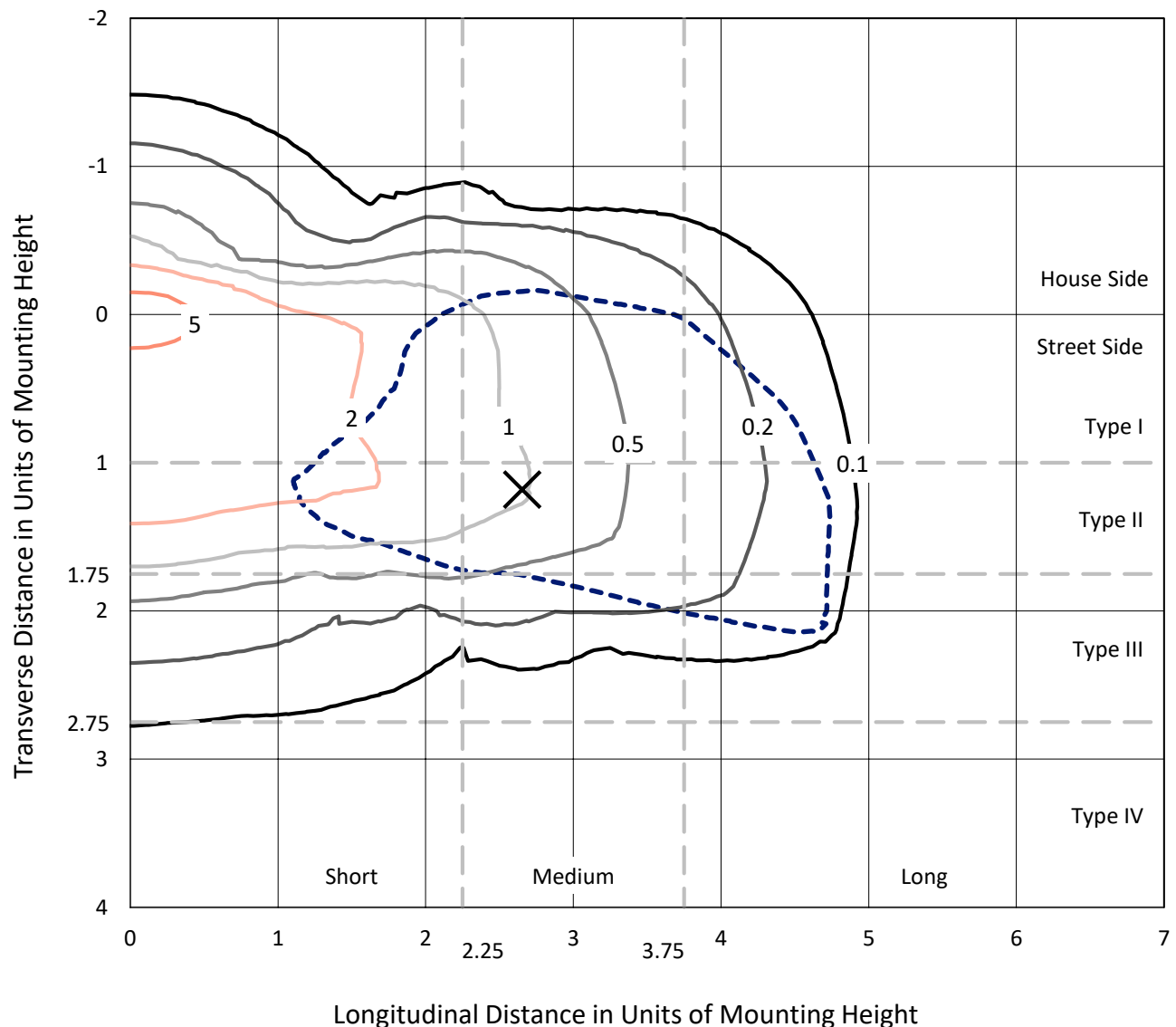
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

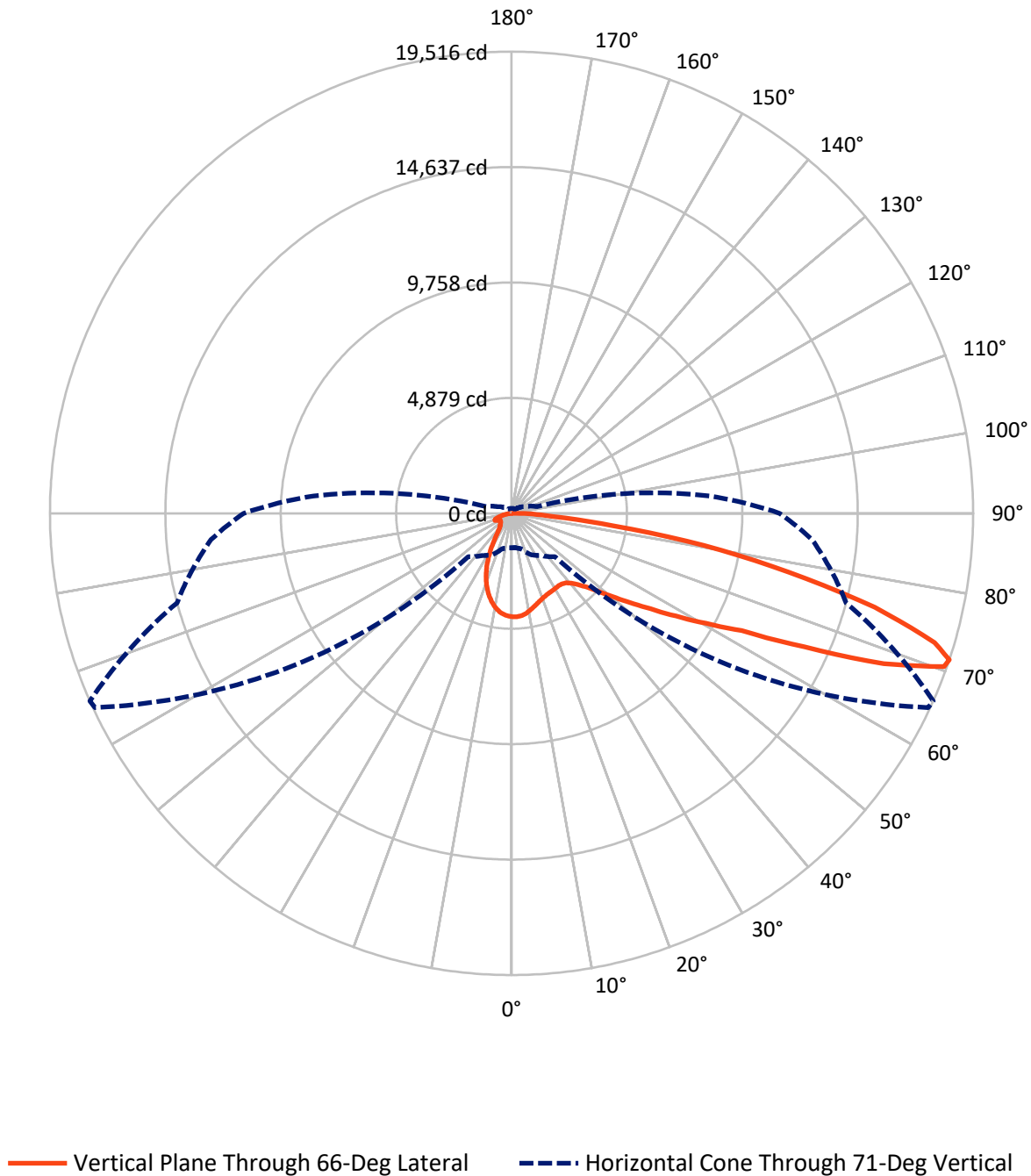
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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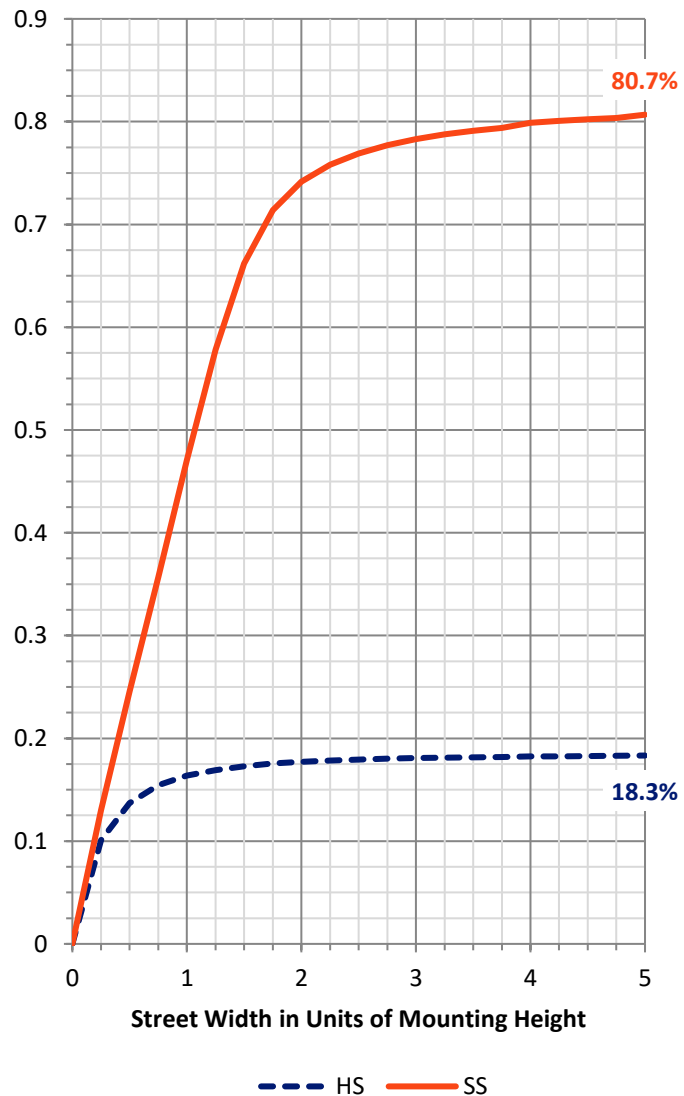
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3536.4	0.0	3536.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	15545.6	0.0	15545.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	19082.0	0.0	19082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.8	2.0
10°-20°	922.9	4.8
20°-30°	1239.6	6.5
30°-40°	1630.7	8.5
40°-50°	2372.3	12.4
50°-60°	3705.8	19.4
60°-70°	4642.1	24.3
70°-80°	3540.9	18.6
80°-90°	643.0	3.4
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°	19082.0	100.0
0°-180°	19082.0	100.0

Coefficient of Utilization



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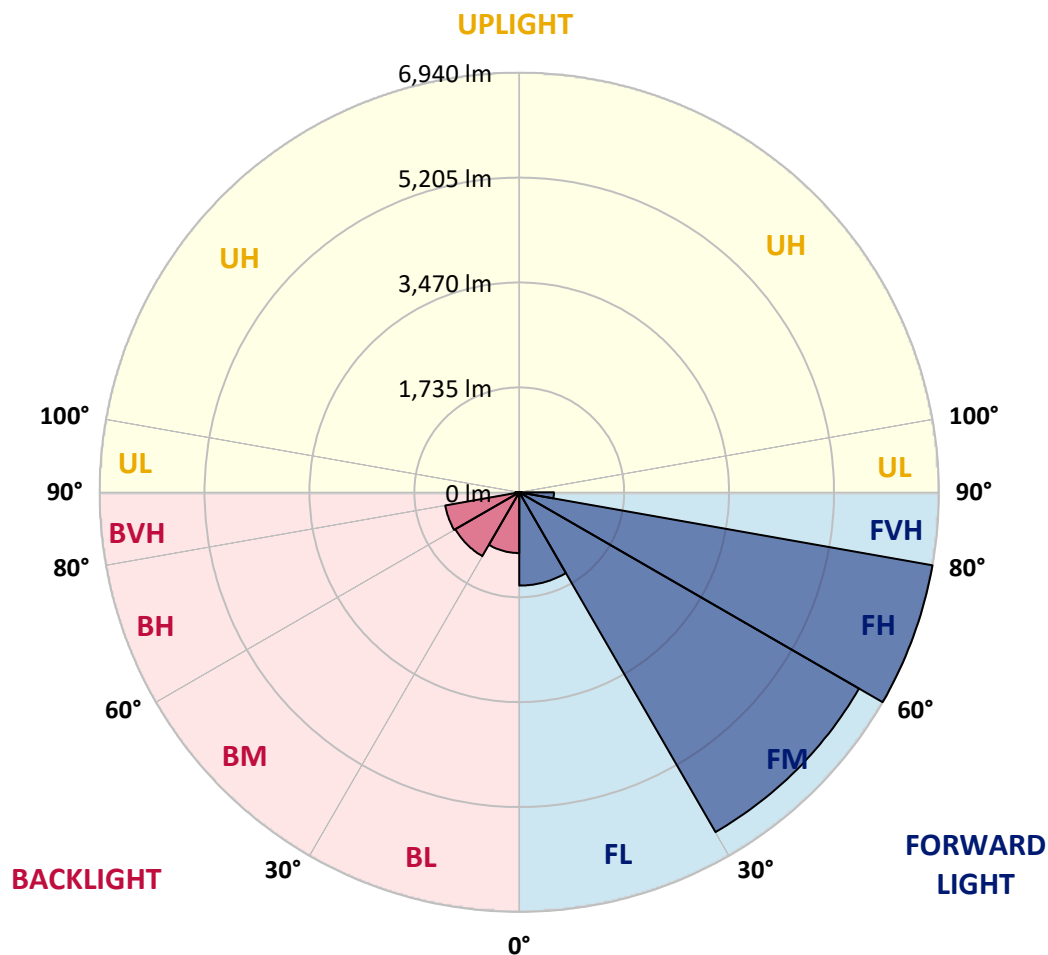
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1543.0	8.1			
FM	(30°-60°)	6488.8	34.0			
FH	(60°-80°)	6940.3	36.4			G3/7500
FVH	(80°-90°)	573.4	3.0			G4/750
BL	(0°-30°)	1004.2	5.3	B3/2500		
BM	(30°-60°)	1220.0	6.4	B2/2500		
BH	(60°-80°)	1242.6	6.5	B3/2500		G3/2500
BVH	(80°-90°)	69.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3
2.5°	4290.3	4283.7	4303.5	4323.9	4331.8	4345.0	4364.7	4375.9	4375.3	4377.2	4370.7
5°	4005.7	3997.1	4036.6	4068.9	4130.8	4200.7	4285.7	4346.3	4347.6	4381.9	4391.1
7.5°	3736.2	3730.3	3775.7	3827.8	3899.6	4006.3	4144.0	4274.5	4282.4	4375.3	4407.6
10°	3520.1	3518.8	3562.9	3619.6	3703.3	3822.5	3980.6	4171.7	4183.6	4343.6	4410.2
12.5°	3351.5	3354.1	3392.3	3456.9	3545.1	3669.7	3841.0	4056.4	4075.5	4293.6	4395.0
15°	3226.9	3237.5	3268.4	3333.7	3420.6	3547.1	3723.0	3949.7	3978.7	4237.6	4386.5
17.5°	3155.8	3167.6	3189.4	3243.4	3325.1	3447.0	3613.7	3862.0	3888.4	4194.8	4387.1
20°	3134.7	3144.6	3157.1	3190.0	3259.2	3369.9	3527.4	3783.0	3811.3	4160.5	4393.7
22.5°	3176.2	3183.5	3184.8	3182.1	3224.3	3314.6	3464.8	3725.0	3755.3	4138.1	4398.3
25°	3265.1	3275.0	3267.8	3243.4	3229.6	3284.9	3432.5	3686.8	3717.1	4121.6	4389.1
27.5°	3398.9	3400.2	3394.3	3362.7	3297.4	3288.2	3422.6	3664.4	3693.4	4102.5	4370.0
30°	3580.7	3589.3	3578.7	3535.9	3429.2	3340.9	3434.5	3642.7	3669.0	4078.1	4339.0
32.5°	3793.5	3814.6	3813.9	3769.1	3616.3	3458.8	3483.2	3629.5	3649.9	4052.4	4301.5
35°	4014.2	4043.2	4097.2	4078.1	3889.1	3645.3	3576.8	3650.6	3664.4	4049.2	4275.1
37.5°	4243.5	4272.5	4383.8	4435.2	4213.9	3912.1	3724.3	3725.0	3731.6	4089.3	4273.2
40°	4483.3	4514.3	4681.6	4815.4	4634.8	4250.1	3962.2	3880.5	3873.2	4188.2	4312.0
42.5°	4819.3	4847.0	5047.9	5218.6	5102.0	4682.9	4290.9	4120.3	4105.2	4381.9	4436.5
45°	5244.3	5268.0	5481.4	5663.9	5604.0	5177.1	4704.0	4450.4	4447.7	4704.7	4688.9
47.5°	5749.6	5768.0	5959.7	6136.3	6158.1	5745.6	5223.2	4959.6	4916.8	5147.4	5079.6
50°	6276.0	6296.4	6426.9	6616.6	6778.0	6506.6	5891.2	5583.6	5526.2	5731.8	5633.0
52.5°	6624.5	6651.5	6764.8	7005.3	7475.1	7340.6	6681.2	6339.9	6252.9	6440.0	6364.3
55°	6469.0	6529.6	6702.9	7088.3	8032.4	8614.8	7655.6	7222.1	7123.9	7279.4	7234.6
57.5°	5762.1	5845.1	6081.6	6676.6	8110.8	9737.5	9128.7	8261.0	8191.9	8147.1	8167.5
60°	4470.1	4549.9	4843.0	5618.5	7564.7	10557.0	11345.7	9541.8	9441.6	9018.0	9036.5
62.5°	3163.7	3123.5	3324.4	3891.7	6146.9	10653.2	13868.3	11254.7	10925.3	9937.7	9856.7
65°	2412.6	2403.4	2493.7	2674.2	3723.0	9502.3	15371.1	14133.8	13619.3	11019.5	10828.5
67.5°	1982.4	1965.9	2054.9	2317.8	2397.5	6130.4	15404.0	17474.1	16968.7	12366.2	11952.4
70°	1629.9	1611.5	1694.5	2033.8	2215.6	3109.0	12964.4	19430.1	19403.1	14071.2	12801.0
71°	1461.3	1448.1	1547.6	1924.4	2176.8	2591.2	11193.5	19435.4	19516.4	14648.4	12750.9
72.5°	1189.8	1194.5	1299.9	1713.0	2147.8	2288.1	8226.8	18529.5	18700.8	15198.5	12295.7
75°	790.6	794.5	932.9	1317.7	2082.6	2238.7	4521.5	15548.3	15863.2	14869.1	11219.8
77.5°	531.0	529.7	623.9	903.9	1814.4	2238.7	2651.1	11629.0	11974.8	11831.2	8649.7
80°	365.6	363.0	429.6	623.9	1373.7	2265.7	2049.6	8149.7	8254.4	6389.3	3515.5
82.5°	224.0	226.0	280.7	440.8	934.9	2039.1	1935.0	4443.8	4329.8	1792.0	878.2
85°	128.5	127.8	179.2	298.4	600.2	1720.9	1886.9	1912.6	1754.5	539.6	317.6
87.5°	46.1	49.4	96.2	165.4	343.9	1198.4	1600.9	994.8	896.7	243.8	143.6
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°	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3	4371.3
2.5°	4366.0	4370.0	4365.4	4339.0	4316.6	4280.4	4260.0	4231.6	4223.1	4219.1	4229.7
5°	4382.5	4383.8	4345.0	4275.8	4198.0	4106.5	4040.6	3959.5	3921.3	3904.9	3915.4
7.5°	4397.7	4391.7	4306.8	4174.3	4030.7	3871.3	3729.6	3599.8	3524.1	3493.1	3495.7
10°	4399.6	4374.6	4238.2	4033.3	3810.7	3576.8	3359.4	3159.1	3032.6	2950.2	2975.3
12.5°	4379.2	4337.1	4137.4	3850.8	3541.9	3223.0	2929.1	2628.7	2448.2	2364.5	2367.2
15°	4363.4	4287.0	4013.6	3636.1	3221.0	2798.7	2397.5	2044.3	1852.0	1766.3	1726.1
17.5°	4350.2	4233.0	3869.9	3394.3	2842.2	2306.6	1824.3	1509.4	1404.0	1378.9	1368.4
20°	4331.8	4175.6	3709.9	3114.3	2410.6	1755.8	1332.1	1176.7	1177.3	1206.3	1210.3
22.5°	4306.1	4110.4	3539.2	2800.0	1947.5	1278.8	1044.2	999.4	1044.9	1100.2	1110.1
25°	4267.9	4033.3	3349.5	2452.8	1485.0	983.0	892.1	890.1	945.4	1003.4	1012.0
27.5°	4213.9	3932.5	3138.7	2079.9	1094.3	835.4	799.2	813.0	853.8	896.0	899.3
30°	4141.4	3815.3	2906.1	1686.6	857.8	743.8	739.9	752.4	777.4	807.1	809.7
32.5°	4061.7	3696.0	2657.7	1305.8	734.6	694.4	698.4	704.3	716.1	728.0	730.6
35°	3989.2	3574.1	2403.4	992.2	676.0	662.1	659.5	658.2	659.5	655.5	656.2
37.5°	3942.4	3473.3	2138.6	789.9	642.4	633.8	625.9	616.0	604.8	598.2	599.5
40°	3925.3	3398.2	1870.4	682.5	614.7	608.8	593.6	572.5	559.3	555.4	555.4
42.5°	3971.4	3359.4	1611.5	628.5	591.6	581.7	556.7	532.3	522.4	521.8	521.1
45°	4112.4	3375.2	1365.1	598.9	570.5	551.4	518.5	498.1	491.5	492.8	492.1
47.5°	4365.4	3474.7	1154.3	579.1	549.5	524.4	487.5	471.1	463.2	463.2	463.8
50°	4795.6	3707.2	986.3	562.6	531.7	499.4	465.1	444.7	434.2	433.5	433.5
52.5°	5422.1	4123.6	881.5	548.8	511.9	477.0	442.7	417.0	404.5	401.9	400.6
55°	6207.5	4720.5	852.5	539.6	485.6	452.6	415.7	390.0	376.2	370.3	369.6
57.5°	7085.7	5446.5	909.8	528.4	458.5	423.6	386.1	361.7	347.2	340.0	339.3
60°	7974.4	6239.1	1143.7	512.6	436.1	392.0	355.8	333.4	318.9	311.0	309.6
62.5°	8864.5	7074.5	1621.4	511.2	420.3	361.7	324.8	305.7	291.9	283.3	281.3
65°	9868.6	7988.9	2164.2	546.2	415.1	334.0	293.2	278.0	266.2	258.3	257.6
67.5°	11021.5	9021.3	2112.2	618.0	432.8	309.0	263.5	251.7	243.1	236.5	235.9
70°	11562.4	8859.9	1313.0	668.7	457.9	284.6	235.2	226.6	220.0	215.4	213.5
71°	11335.8	8412.6	1100.9	662.8	455.2	274.1	224.0	217.4	210.8	206.9	204.9
72.5°	10717.8	7672.0	918.4	616.7	425.6	255.0	209.5	202.9	197.0	192.4	191.1
75°	9617.6	6851.8	735.3	492.8	339.3	215.4	183.8	176.6	172.0	169.3	166.7
77.5°	7069.9	4889.8	568.6	389.4	249.7	175.9	156.8	151.5	146.9	143.0	141.0
80°	2708.4	1894.1	382.8	290.5	183.2	139.0	126.5	123.9	119.2	116.6	116.6
82.5°	729.3	565.9	204.2	175.9	122.5	101.5	96.8	95.5	91.6	86.3	87.0
85°	295.2	249.7	114.6	96.8	75.1	60.0	65.2	65.9	61.3	54.7	55.3
87.5°	129.8	106.1	63.9	42.8	32.9	23.1	29.6	29.6	27.0	22.4	20.4
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)