

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: P319588

Luminaire Tested: **GAN-SA4A-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319588
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-SA4A-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 15722 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

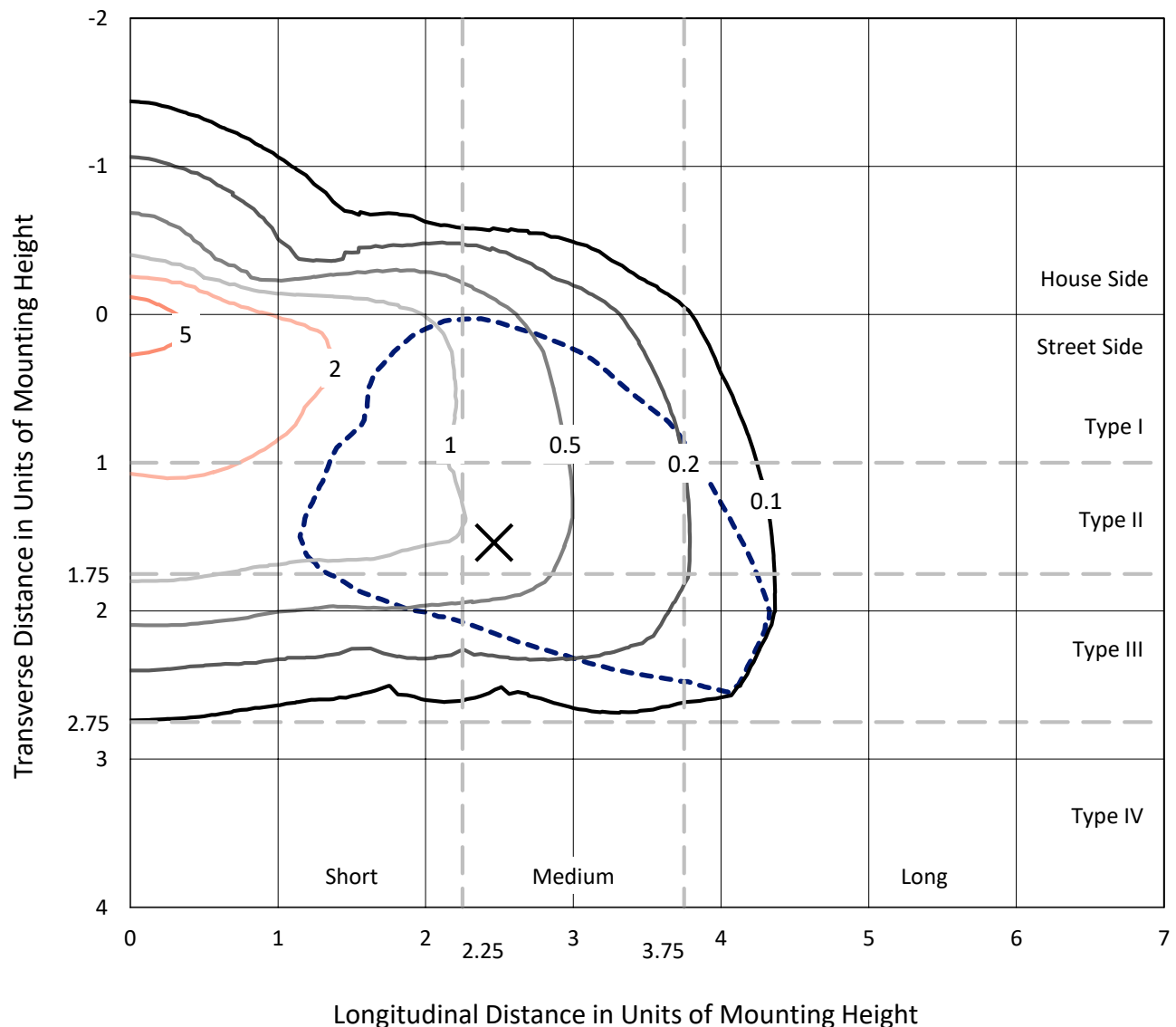
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

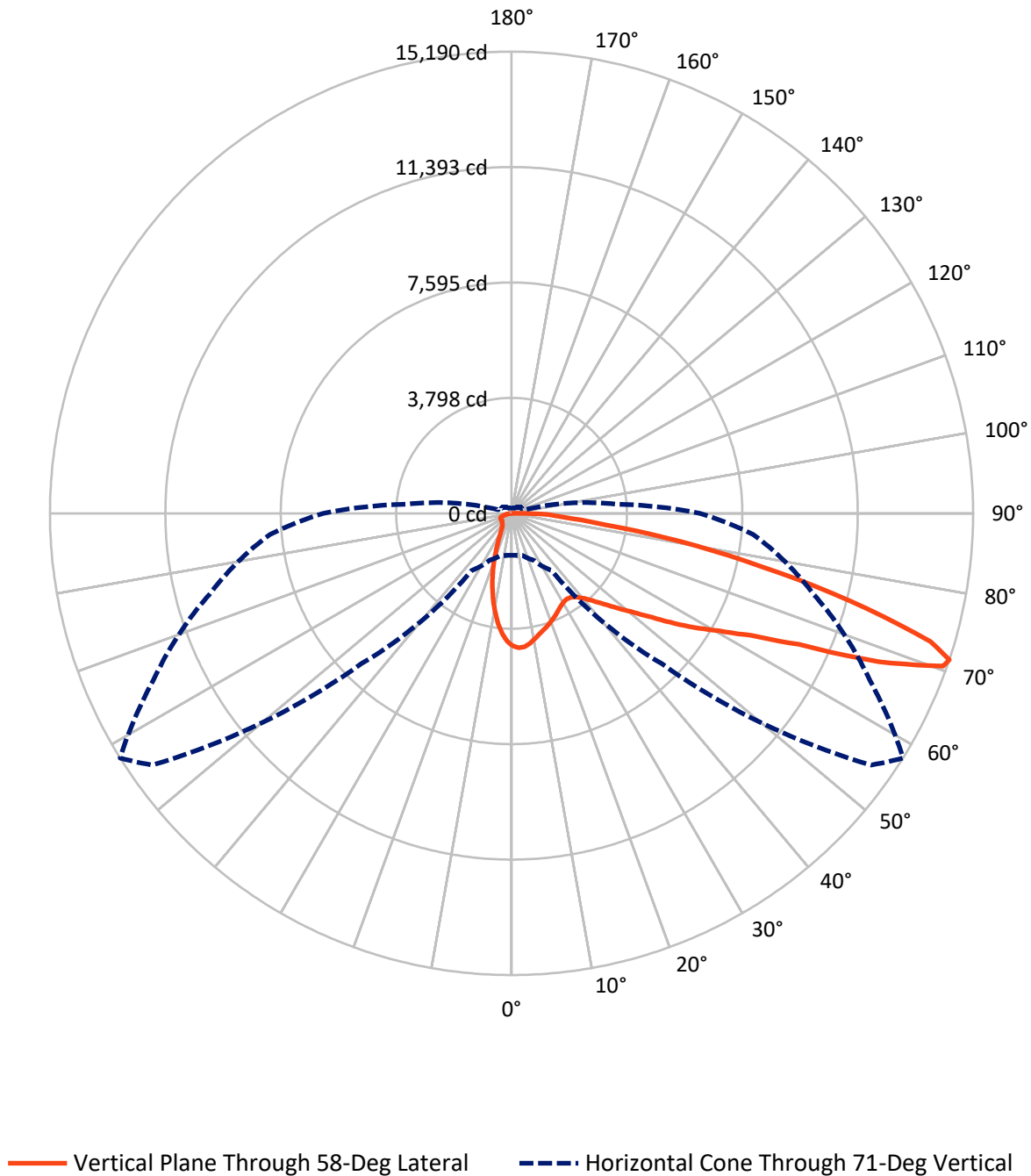
✕ Max cd
 - - - 1/2 Max cd



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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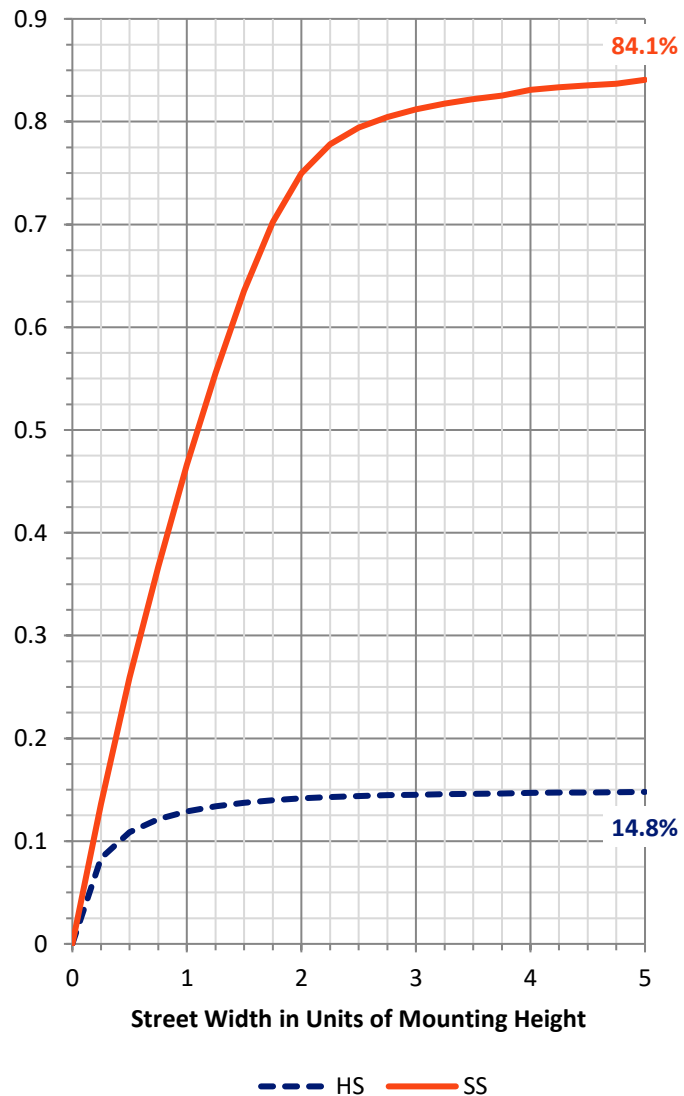
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2350.5	0.0	2350.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	13371.4	0.0	13371.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	15722.0	0.0	15722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.8	2.4
10°-20°	835.6	5.3
20°-30°	1062.0	6.8
30°-40°	1352.8	8.6
40°-50°	1918.3	12.2
50°-60°	2968.6	18.9
60°-70°	4041.4	25.7
70°-80°	2696.1	17.1
80°-90°	471.4	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°	15722.0	100.0
0°-180°	15722.0	100.0

Coefficient of Utilization



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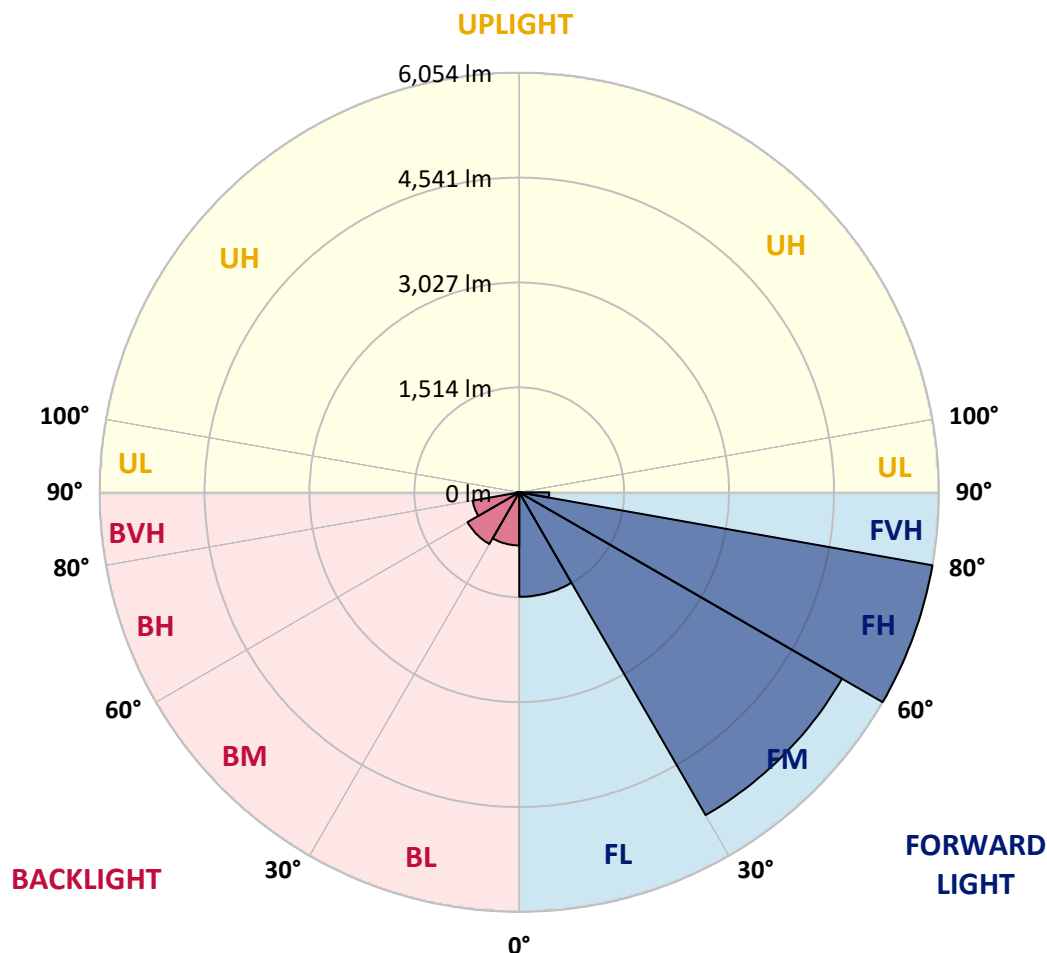
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1507.2	9.6			
FM	(30°-60°)	5377.7	34.2			
FH	(60°-80°)	6054.4	38.5			G3/7500
FVH	(80°-90°)	432.2	2.7			G3/500
BL	(0°-30°)	766.2	4.9	B2/1000		
BM	(30°-60°)	862.0	5.5	B1/1000		
BH	(60°-80°)	683.2	4.3	B2/1000		G2/1000
BVH	(80°-90°)	39.2	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°	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0
2.5°	4471.6	4465.6	4467.8	4463.4	4453.0	4442.6	4427.2	4430.0	4408.6	4376.9	4337.4
5°	4387.3	4385.1	4401.5	4410.8	4418.5	4412.5	4408.1	4413.5	4382.3	4338.5	4270.1
7.5°	4210.4	4186.3	4207.1	4238.3	4267.9	4290.3	4319.9	4323.7	4304.0	4258.0	4168.2
10°	3959.0	3936.0	3966.7	4015.4	4074.6	4128.2	4187.9	4198.9	4202.7	4161.1	4052.1
12.5°	3698.3	3680.8	3711.5	3779.9	3877.9	3960.6	4055.9	4072.4	4106.3	4078.4	3944.8
15°	3465.0	3458.4	3495.7	3563.0	3675.9	3802.4	3939.8	3969.9	4027.5	4018.1	3861.0
17.5°	3263.5	3261.8	3290.3	3361.0	3485.8	3645.7	3824.3	3875.2	3960.6	3971.6	3792.0
20°	3113.4	3110.1	3129.8	3181.9	3310.6	3491.8	3699.4	3769.5	3892.7	3931.1	3720.8
22.5°	3032.9	3032.4	3032.9	3057.6	3162.7	3331.4	3577.8	3663.3	3826.5	3898.8	3641.9
25°	3019.2	3017.6	3005.5	3002.8	3062.5	3197.2	3457.3	3551.5	3763.5	3876.3	3566.9
27.5°	3054.8	3057.0	3041.1	3015.4	3027.4	3109.0	3352.7	3453.5	3713.1	3871.9	3514.8
30°	3128.8	3127.7	3114.0	3087.1	3063.6	3076.2	3278.3	3379.0	3679.1	3891.1	3479.2
32.5°	3210.4	3216.4	3213.6	3198.9	3163.8	3113.4	3255.8	3354.4	3669.3	3937.1	3463.9
35°	3308.4	3315.0	3334.7	3346.2	3305.1	3224.0	3304.0	3389.4	3697.8	4023.6	3488.6
37.5°	3401.5	3418.5	3473.8	3522.5	3487.5	3397.1	3432.2	3492.9	3785.9	4160.0	3554.8
40°	3508.8	3523.6	3614.0	3717.5	3712.0	3618.4	3638.6	3679.1	3941.5	4355.5	3674.8
42.5°	3614.5	3644.1	3775.0	3921.8	3963.9	3881.2	3913.5	3934.9	4160.5	4614.5	3884.0
45°	3755.3	3787.0	3968.9	4145.7	4244.3	4197.8	4249.3	4257.5	4436.0	4967.2	4187.9
47.5°	3968.3	4004.5	4216.4	4402.0	4552.7	4557.6	4642.5	4639.2	4779.9	5370.8	4570.7
50°	4300.2	4352.2	4525.8	4699.4	4882.3	4984.2	5097.6	5081.7	5192.3	5800.8	5011.6
52.5°	4735.0	4759.1	4887.8	5016.0	5243.2	5471.6	5634.3	5620.0	5660.0	6242.7	5512.1
55°	5185.7	5203.8	5256.9	5327.0	5632.6	6005.0	6349.0	6326.5	6225.2	6701.6	6006.7
57.5°	5591.0	5627.7	5664.4	5693.4	6024.7	6562.5	7080.1	7081.7	6838.6	7196.7	6517.6
60°	5654.0	5686.3	5928.9	6157.8	6695.6	7306.3	7862.7	7846.2	7473.3	7734.0	7087.2
62.5°	4997.9	5070.7	5476.0	6085.0	7341.9	8666.6	8861.1	8840.8	8232.3	8396.1	7750.4
65°	3581.7	3664.4	4153.4	5068.5	7028.6	10165.6	10662.8	10390.1	9267.4	9210.5	8527.0
67.5°	2066.3	2086.0	2298.0	3032.9	5351.7	10243.9	13411.5	13029.8	10874.8	10134.3	8907.1
70°	1528.0	1527.4	1577.8	1866.4	2896.0	8360.5	14718.8	15061.1	12567.0	10438.3	8369.8
71°	1381.7	1383.4	1439.8	1698.8	2293.6	6997.9	14441.1	15190.3	13012.8	10288.2	7981.0
72.5°	1181.8	1187.3	1265.6	1523.6	1929.4	4825.9	13245.0	14414.8	13224.2	9918.0	7372.5
75°	896.5	909.1	1017.5	1284.3	1763.4	2447.5	9720.9	11510.6	11747.7	8751.5	5478.2
77.5°	639.7	653.9	776.6	1080.0	1676.4	1844.5	6510.0	8396.1	8645.3	5608.5	2471.0
80°	404.2	421.1	513.7	859.3	1575.1	1751.4	4091.0	5643.6	4714.2	1794.7	628.7
82.5°	237.1	250.3	318.7	561.3	1286.4	1686.8	2406.9	3128.2	1834.6	542.2	285.9
85°	137.5	143.5	198.8	357.6	934.3	1592.0	1768.4	1748.7	796.3	265.1	135.3
87.5°	64.1	71.2	117.7	186.8	518.6	1153.9	1397.6	1207.6	495.1	124.3	63.5
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°	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0	4356.0
2.5°	4318.3	4308.9	4270.1	4235.6	4199.4	4152.3	4100.3	4093.7	4062.0	4068.0	4057.0
5°	4232.8	4209.3	4115.6	4030.7	3930.5	3840.7	3743.2	3698.3	3633.7	3629.3	3612.9
7.5°	4110.7	4066.9	3921.8	3760.7	3599.7	3446.4	3294.7	3195.0	3093.2	3049.9	3046.1
10°	3973.2	3898.8	3685.2	3446.9	3214.7	2990.7	2773.9	2613.4	2468.8	2400.4	2397.6
12.5°	3842.9	3732.8	3439.8	3115.6	2798.0	2507.7	2210.3	1999.5	1818.2	1757.4	1731.7
15°	3732.3	3577.3	3201.0	2786.5	2400.9	1997.8	1659.4	1437.6	1270.0	1212.0	1201.0
17.5°	3624.9	3425.6	2956.2	2454.0	1988.0	1544.9	1205.9	1041.1	951.8	928.3	927.7
20°	3518.1	3269.5	2700.5	2113.9	1588.7	1155.6	927.2	853.2	823.1	820.4	816.0
22.5°	3397.1	3104.1	2431.6	1772.8	1239.9	908.6	788.1	758.5	754.7	764.5	764.5
25°	3283.7	2939.8	2158.9	1438.7	964.4	758.0	703.7	697.7	708.1	725.6	727.3
27.5°	3178.0	2781.5	1892.7	1141.9	772.7	667.6	645.1	652.3	670.9	691.1	691.7
30°	3091.0	2632.0	1634.2	899.8	652.8	600.2	596.4	610.6	630.9	646.8	650.6
32.5°	3023.6	2504.4	1384.5	723.5	574.5	549.8	553.1	565.2	577.8	586.5	592.6
35°	2992.4	2394.9	1153.9	610.1	524.7	511.0	515.3	521.9	527.4	534.0	538.9
37.5°	2997.9	2310.0	948.0	539.4	491.2	484.1	484.1	484.1	484.1	487.4	488.0
40°	3048.8	2261.3	780.4	494.5	468.8	461.1	455.1	449.6	445.2	447.4	446.3
42.5°	3179.1	2256.9	657.7	466.1	450.7	438.1	426.1	418.4	412.9	415.1	416.2
45°	3400.4	2311.7	575.0	445.8	433.7	414.6	399.2	391.0	387.2	394.3	395.4
47.5°	3686.8	2431.0	524.7	431.0	417.9	392.7	376.2	368.6	369.7	380.1	382.8
50°	4055.9	2624.9	500.6	421.7	406.9	374.0	357.1	350.5	353.8	368.6	371.9
52.5°	4461.2	2904.2	503.3	419.0	399.8	360.4	342.3	334.6	340.1	353.8	356.5
55°	4928.9	3239.9	548.7	422.8	389.4	351.6	330.2	317.1	321.5	334.1	336.3
57.5°	5448.6	3624.4	640.2	421.7	376.2	343.4	317.6	297.9	301.2	308.9	311.1
60°	5989.7	4088.8	782.1	425.0	370.2	333.5	300.7	276.0	274.9	281.5	282.6
62.5°	6639.2	4626.0	944.2	427.2	374.0	320.9	278.2	254.1	250.8	252.5	253.6
65°	7308.5	5014.9	883.4	418.4	386.1	310.5	258.5	232.8	226.7	225.6	226.2
67.5°	7329.3	4598.1	619.4	400.9	391.0	305.0	243.7	214.7	204.8	201.0	200.4
70°	6573.0	3735.6	482.5	382.3	371.3	296.3	230.0	199.9	185.1	179.1	178.5
71°	6203.8	3438.7	457.3	373.0	356.5	287.5	224.0	193.3	178.0	171.4	170.3
72.5°	5625.0	3082.7	426.6	358.2	328.0	265.1	212.5	184.0	168.1	160.5	158.8
75°	4036.8	2015.9	366.4	319.3	271.6	211.4	186.2	165.4	151.7	142.4	141.3
77.5°	1555.3	802.3	277.1	265.6	208.1	165.4	153.3	142.9	133.1	123.8	123.2
80°	480.8	358.7	202.1	199.9	150.6	123.2	119.4	116.7	112.8	103.0	100.8
82.5°	256.9	205.9	139.1	129.2	98.6	82.1	86.5	87.6	88.2	77.8	76.7
85°	122.7	109.0	78.3	73.4	57.5	46.0	53.1	57.5	58.1	47.6	44.4
87.5°	58.6	57.0	36.7	27.9	21.4	15.3	18.6	23.0	25.2	18.1	15.9
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)