

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: P320110

Luminaire Tested: **GAN-SA6A-827-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19470 lumens
Efficiency: N/A
Efficacy: 100.9 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): 193
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

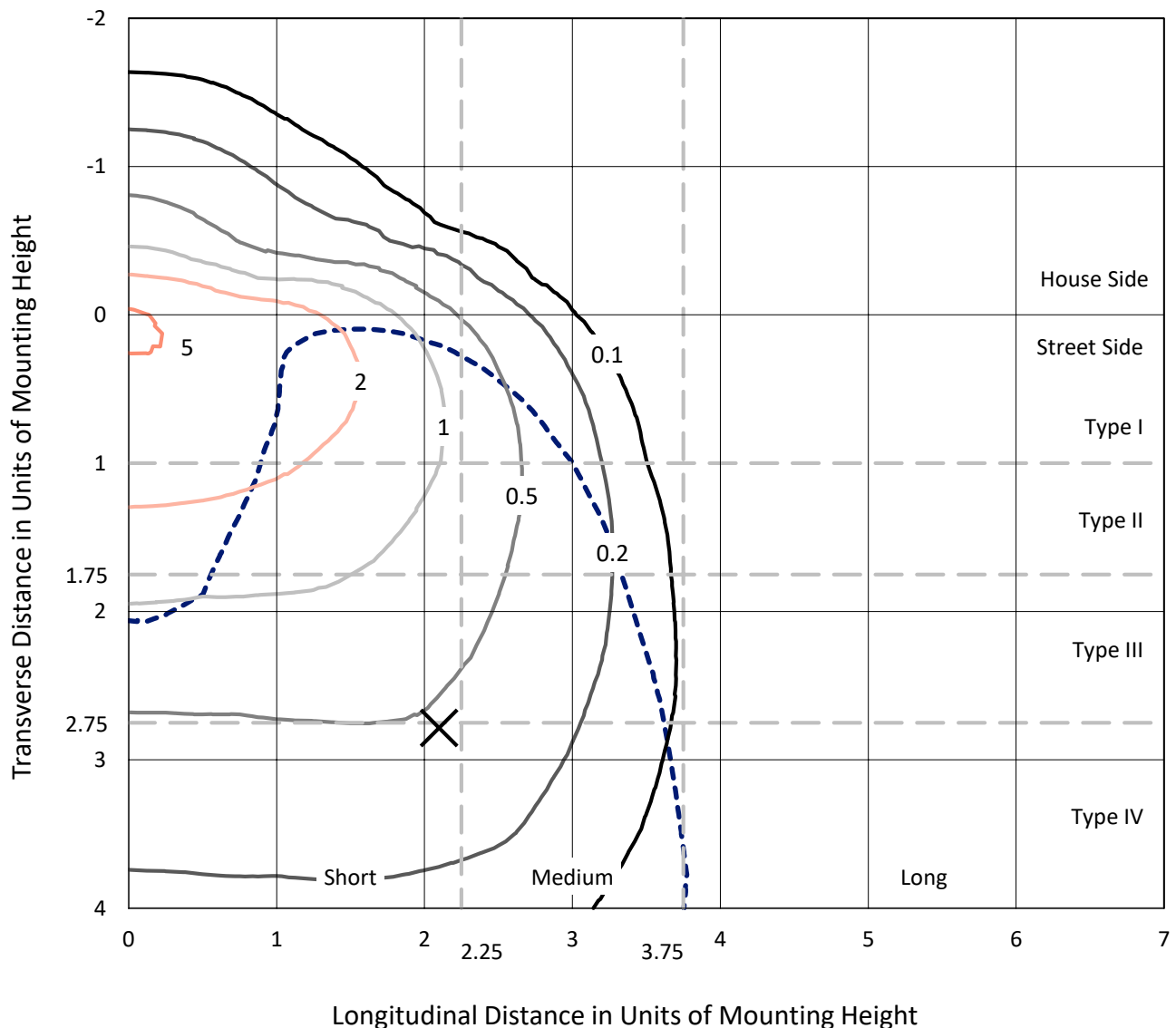


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Iso-Footcandle Lines of Horizontal Illumination

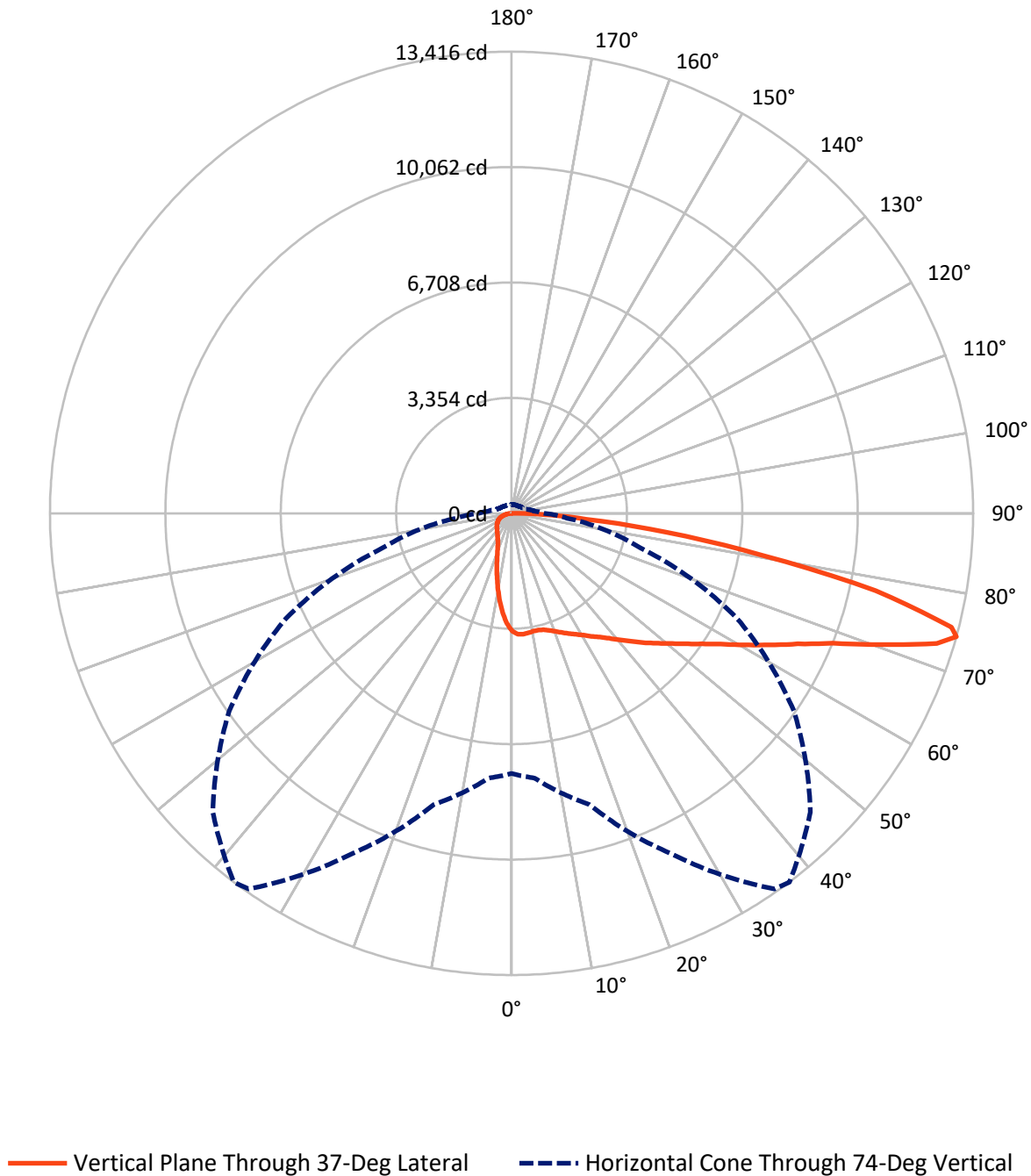
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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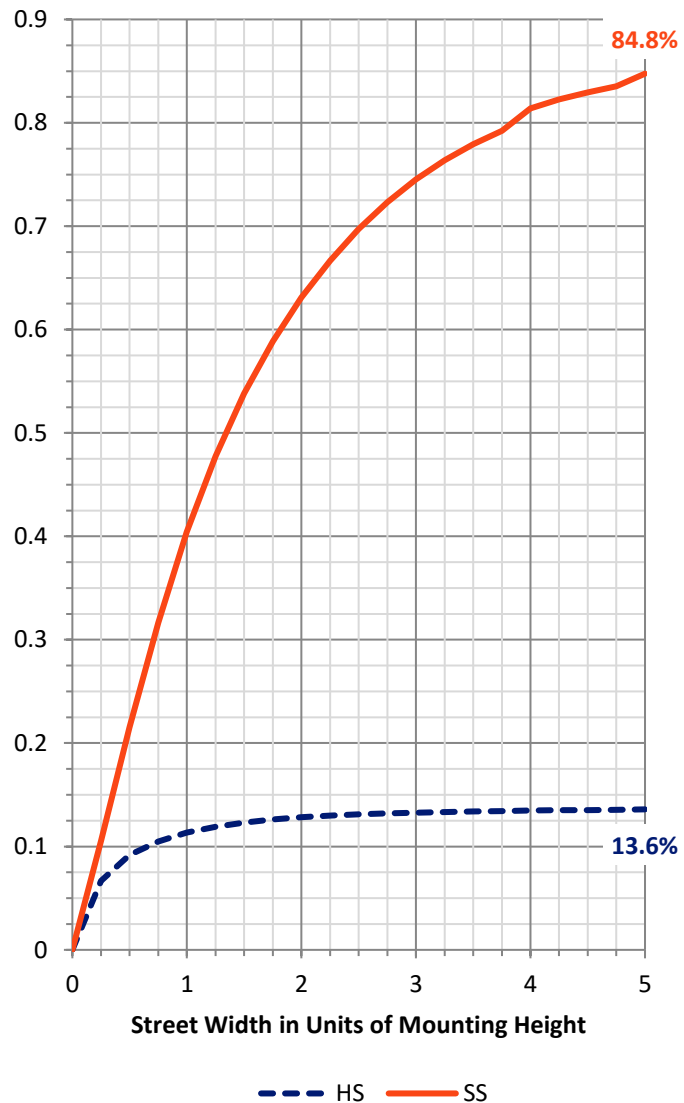
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2678.9	0.0	2678.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	16791.1	0.0	16791.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	19470.0	0.0	19470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	1.6
10°-20°	774.4	4.0
20°-30°	1193.1	6.1
30°-40°	1735.0	8.9
40°-50°	2553.6	13.1
50°-60°	3586.1	18.4
60°-70°	4538.9	23.3
70°-80°	3996.6	20.5
80°-90°	790.2	4.1
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°	19470.0	100.0
0°-180°	19470.0	100.0

Coefficient of Utilization



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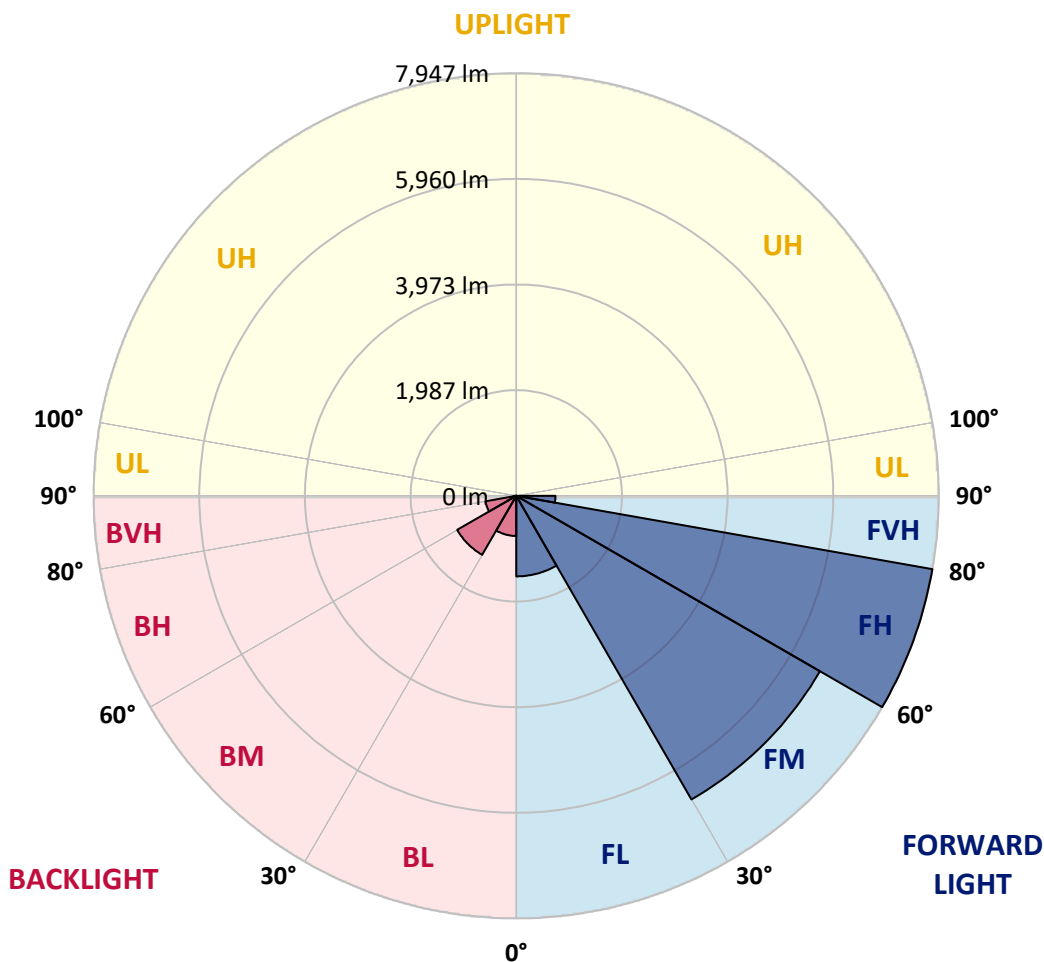
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1515.0	7.8			
FM	(30°-60°)	6592.7	33.9			
FH	(60°-80°)	7946.7	40.8			G4/12000
FVH	(80°-90°)	736.7	3.8			G4/750
BL	(0°-30°)	754.6	3.9	B2/1000		
BM	(30°-60°)	1282.0	6.6	B2/2500		
BH	(60°-80°)	588.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	53.5	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5
2.5°	3547.8	3548.5	3547.8	3542.3	3529.3	3518.3	3509.4	3496.4	3467.6	3445.6	3412.7
5°	3581.4	3577.3	3574.6	3564.3	3543.7	3531.4	3514.2	3489.5	3442.2	3398.3	3344.8
7.5°	3565.6	3560.8	3554.7	3542.3	3519.0	3508.7	3484.7	3452.5	3395.6	3338.0	3261.1
10°	3517.0	3515.6	3512.8	3510.1	3490.2	3482.0	3460.0	3425.7	3369.5	3299.5	3209.7
12.5°	3462.8	3466.2	3477.2	3491.6	3482.7	3478.5	3464.8	3441.5	3383.9	3308.5	3200.1
15°	3428.5	3438.1	3467.6	3505.3	3512.8	3511.5	3508.0	3492.9	3431.9	3348.2	3222.0
17.5°	3416.8	3432.6	3488.8	3551.2	3573.2	3578.0	3579.4	3553.3	3485.4	3396.9	3244.7
20°	3438.1	3458.0	3540.3	3626.0	3661.0	3663.7	3657.5	3612.3	3536.2	3438.8	3257.0
22.5°	3502.6	3520.4	3623.3	3720.0	3759.7	3763.9	3745.3	3676.8	3589.7	3488.1	3274.2
25°	3626.7	3648.6	3751.5	3848.2	3868.8	3869.5	3842.7	3757.7	3659.6	3557.4	3311.2
27.5°	3788.5	3810.5	3903.1	3997.7	3986.7	3980.6	3944.2	3859.2	3750.8	3652.7	3377.0
30°	3968.9	3992.9	4080.7	4147.9	4121.9	4109.5	4080.0	3970.3	3877.7	3783.1	3477.9
32.5°	4155.5	4177.4	4254.2	4300.2	4267.3	4261.8	4217.2	4117.1	4043.0	3981.9	3641.1
35°	4346.8	4362.6	4438.0	4464.1	4420.2	4418.8	4406.5	4314.6	4267.9	4296.7	3878.4
37.5°	4542.3	4546.4	4610.9	4612.2	4599.2	4604.7	4617.7	4560.1	4573.1	4663.0	4187.0
40°	4716.5	4727.4	4774.1	4788.5	4811.1	4830.3	4895.5	4857.8	4958.6	5117.7	4571.1
42.5°	4845.4	4866.7	4941.4	4978.5	5051.8	5082.0	5173.9	5208.9	5411.9	5650.6	5027.8
45°	4954.5	4987.4	5107.4	5183.5	5307.7	5360.5	5492.2	5609.4	5924.2	6228.7	5508.6
47.5°	5072.4	5114.3	5264.5	5409.9	5578.6	5638.2	5877.6	6053.2	6470.8	6810.3	5961.9
50°	5245.9	5278.2	5424.9	5653.3	5863.9	5940.7	6271.9	6523.6	7026.4	7364.5	6354.9
52.5°	5488.0	5475.7	5599.8	5920.1	6202.7	6297.3	6693.0	7024.3	7589.4	7865.8	6686.9
55°	5731.5	5710.9	5798.0	6199.2	6597.7	6697.2	7156.7	7527.0	8125.1	8317.1	6941.3
57.5°	6002.4	5963.3	6036.7	6514.0	7047.6	7166.3	7675.8	8061.3	8651.8	8682.0	7103.2
60°	6281.5	6228.7	6311.0	6904.3	7618.9	7758.8	8283.5	8582.5	9148.3	8974.1	7155.3
62.5°	6525.7	6488.7	6615.5	7339.8	8262.9	8416.5	8880.2	9136.7	9638.0	9095.5	6967.4
65°	6739.0	6745.2	6964.6	7829.5	8981.0	9144.9	9564.6	9819.8	10023.5	9023.5	6527.8
67.5°	6993.4	7028.4	7402.9	8474.2	9884.9	10064.6	10560.5	10564.6	10238.8	8601.0	5662.2
70°	7364.5	7436.5	8005.7	9368.5	11170.2	11417.1	11799.8	11002.1	9936.4	7455.7	4455.2
72.5°	7693.7	7828.1	8647.0	10391.7	12736.6	12923.8	12524.7	10749.8	8672.4	5587.5	2775.6
74°	7559.9	7726.6	8763.6	10895.8	13326.4	13416.3	12279.8	10013.2	7230.7	3869.5	1613.1
75°	7271.9	7453.0	8593.5	10891.0	13251.7	13201.6	11688.7	9171.6	5955.1	2639.1	1073.3
77.5°	5868.7	6060.0	7241.0	9334.2	10865.7	10818.3	8978.9	6152.6	2608.2	865.5	545.2
80°	3412.0	3558.1	4495.0	5927.7	7326.8	7412.5	5905.0	3044.4	1026.0	486.3	369.7
82.5°	1515.7	1616.5	2171.3	3025.9	4421.6	4532.0	3092.4	1595.2	633.7	295.6	222.2
85°	994.5	1069.2	1318.2	1440.9	2105.5	2181.0	1513.6	1242.0	418.4	162.5	163.2
87.5°	715.3	787.3	979.4	855.2	966.3	914.9	823.7	1149.5	168.0	92.6	54.9
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°	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5	3430.5
2.5°	3398.3	3387.3	3362.6	3316.0	3289.9	3268.0	3231.6	3210.4	3200.8	3200.1	3204.2
5°	3313.9	3288.6	3224.8	3146.6	3084.2	3027.3	2956.6	2914.1	2883.9	2866.1	2870.9
7.5°	3215.9	3176.1	3076.0	2951.1	2851.0	2740.6	2631.5	2566.4	2515.6	2477.9	2484.8
10°	3148.7	3093.8	2947.7	2768.0	2601.4	2440.9	2290.7	2200.8	2129.5	2074.6	2078.8
12.5°	3126.0	3052.0	2849.6	2609.6	2375.7	2156.3	1960.1	1822.3	1748.9	1686.5	1691.3
15°	3129.5	3030.0	2767.3	2466.9	2172.7	1896.3	1658.3	1497.2	1397.7	1354.5	1355.2
17.5°	3132.2	3004.6	2680.9	2314.0	1971.8	1653.5	1395.0	1231.8	1137.8	1098.0	1098.7
20°	3123.3	2963.5	2573.9	2138.4	1761.9	1430.6	1180.3	1041.8	970.5	939.6	939.6
22.5°	3111.6	2914.8	2453.2	1962.2	1554.8	1237.2	1026.7	921.1	879.9	859.3	858.7
25°	3117.1	2878.4	2329.8	1781.1	1364.1	1082.9	924.5	854.5	827.1	814.1	813.4
27.5°	3146.6	2861.3	2215.9	1600.7	1197.5	967.0	855.9	806.5	788.7	780.5	780.5
30°	3200.1	2861.3	2097.3	1447.1	1058.9	881.3	803.1	769.5	757.2	751.7	751.7
32.5°	3293.4	2877.1	1982.7	1294.9	948.5	814.1	759.2	736.6	727.0	724.2	724.2
35°	3453.9	2930.6	1871.0	1150.8	859.3	759.2	717.4	704.4	697.5	696.8	698.9
37.5°	3679.5	3039.6	1766.0	1044.5	796.3	714.6	682.4	672.1	668.0	671.4	674.2
40°	3963.4	3187.8	1670.7	948.5	748.2	679.0	650.2	643.3	641.3	646.1	650.2
42.5°	4306.3	3388.0	1592.5	879.2	711.2	648.8	622.7	614.5	612.4	617.9	623.4
45°	4677.4	3603.4	1537.6	827.8	682.4	626.2	598.7	589.8	585.7	588.4	594.6
47.5°	5014.8	3807.1	1515.7	791.5	655.0	607.0	577.5	566.5	559.6	558.3	563.1
50°	5299.4	3958.6	1526.0	769.5	633.0	585.7	556.9	544.6	534.3	528.1	531.5
52.5°	5506.6	4054.0	1535.6	759.9	615.9	562.4	534.3	522.6	508.9	498.6	498.6
55°	5656.8	4075.9	1514.3	752.4	602.8	537.0	508.9	497.9	484.2	472.5	471.2
57.5°	5715.7	4014.2	1435.4	741.4	593.9	513.0	482.1	473.9	462.3	448.5	447.8
60°	5636.2	3823.5	1283.2	718.1	582.3	493.1	455.4	449.9	444.4	431.4	430.7
62.5°	5316.6	3405.2	1086.4	670.7	559.0	471.9	430.7	433.4	434.1	425.2	423.8
65°	4737.1	2830.4	894.3	609.0	524.0	446.5	405.3	418.4	425.9	424.5	422.5
67.5°	3894.8	2202.9	757.8	543.9	478.0	411.5	377.9	393.0	399.2	404.0	402.6
70°	2890.8	1553.4	626.9	475.3	422.5	370.4	342.2	349.8	345.7	351.1	353.2
72.5°	1611.7	932.0	510.9	406.7	364.9	322.3	302.5	301.1	292.2	292.2	292.2
74°	967.0	683.8	449.2	364.2	329.9	290.8	273.6	267.5	259.2	259.9	259.2
75°	777.7	587.8	412.2	336.1	305.2	272.3	255.1	246.9	240.7	240.7	240.0
77.5°	491.1	446.5	331.9	267.5	244.2	224.3	212.6	201.6	201.6	200.9	200.3
80°	371.0	355.3	258.6	202.3	187.2	172.1	164.6	159.8	159.8	161.9	161.2
82.5°	254.4	267.5	181.7	141.3	133.7	122.8	121.4	122.1	120.0	117.3	116.6
85°	185.9	200.9	122.8	89.2	81.6	74.8	80.2	83.0	79.6	73.4	70.6
87.5°	71.3	131.7	65.8	37.0	34.3	29.5	34.3	35.7	38.4	30.2	30.9
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)