

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: P321722

Luminaire Tested: **GAN-SA8B-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321722
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25895 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

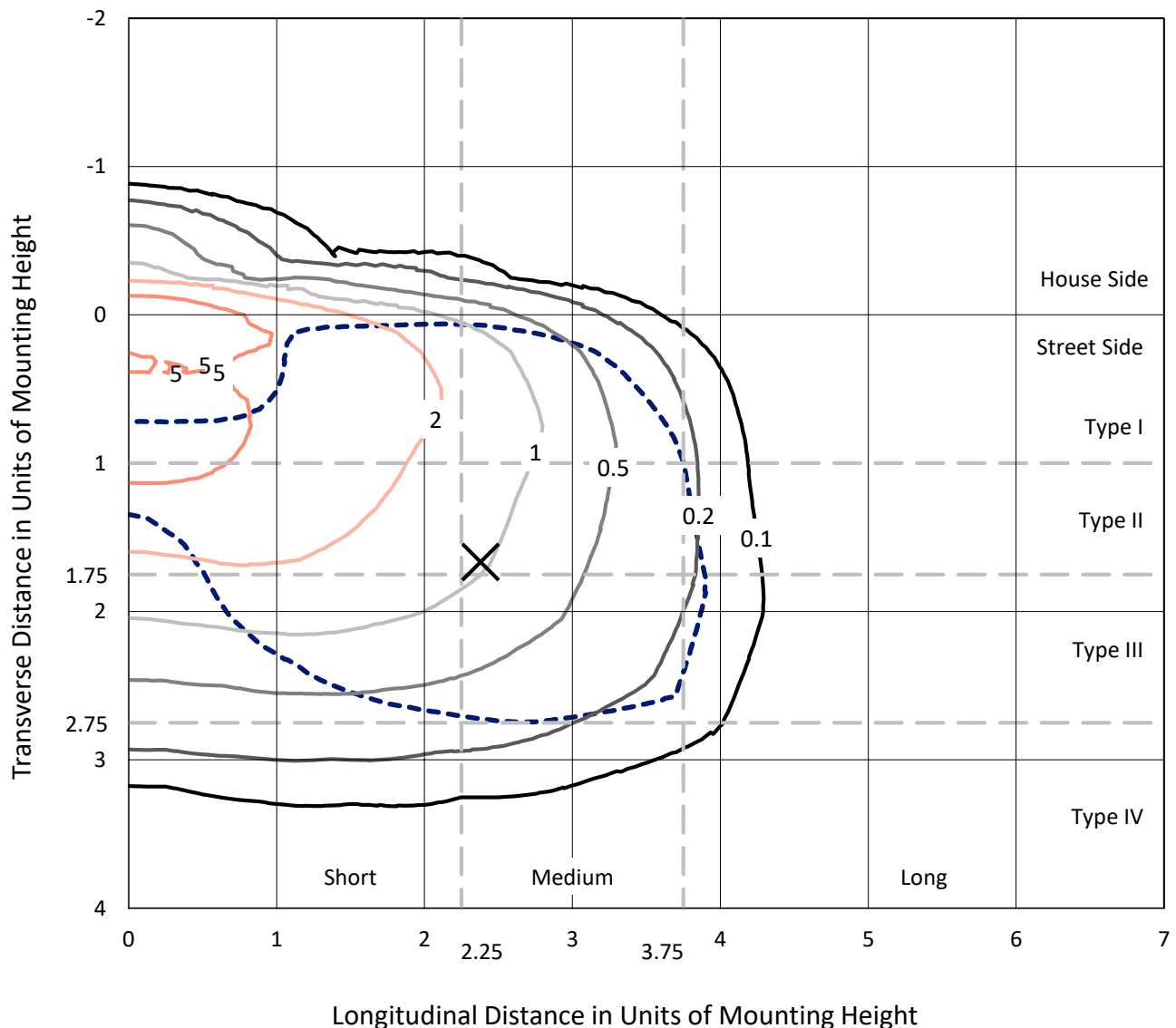
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

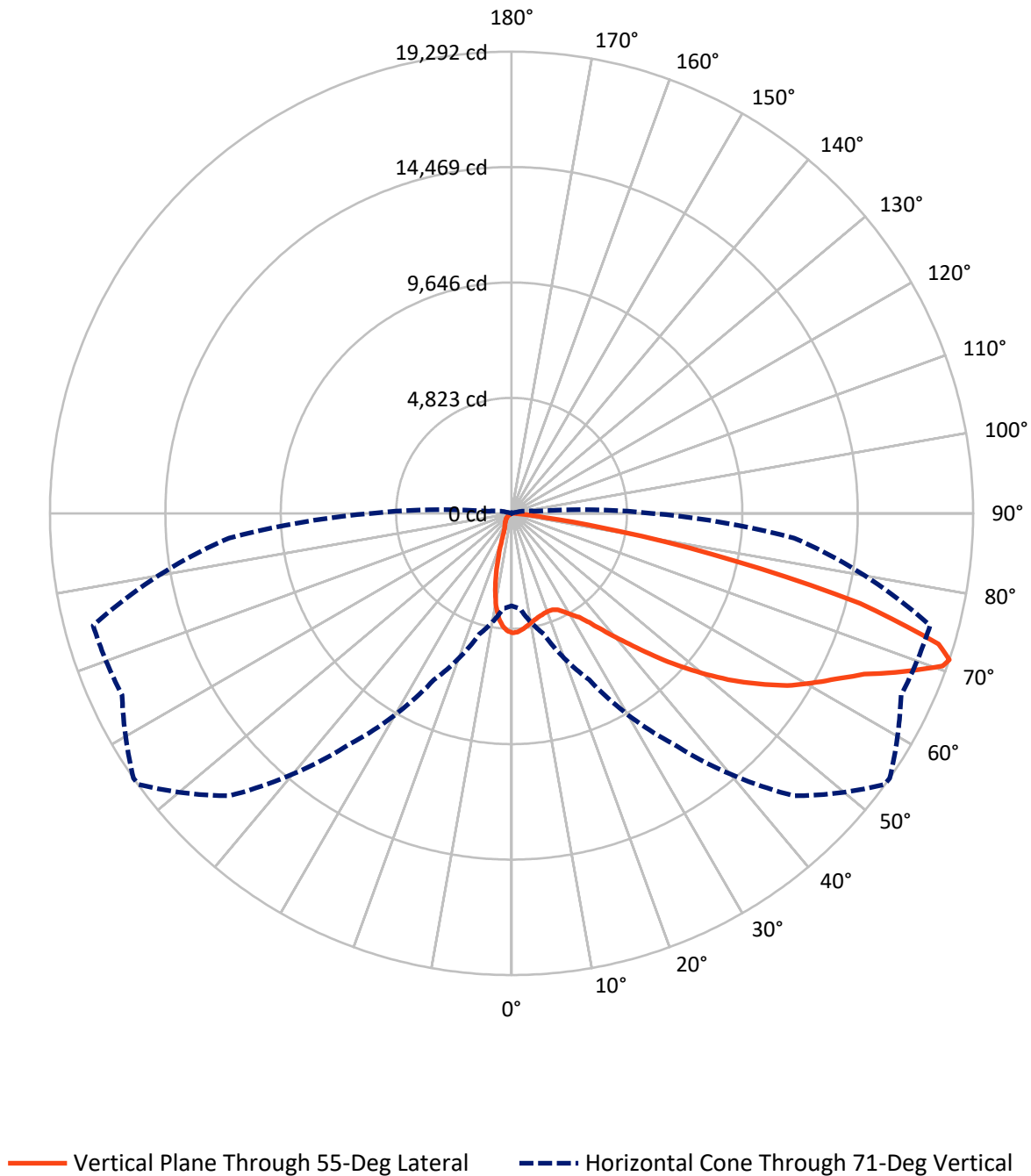
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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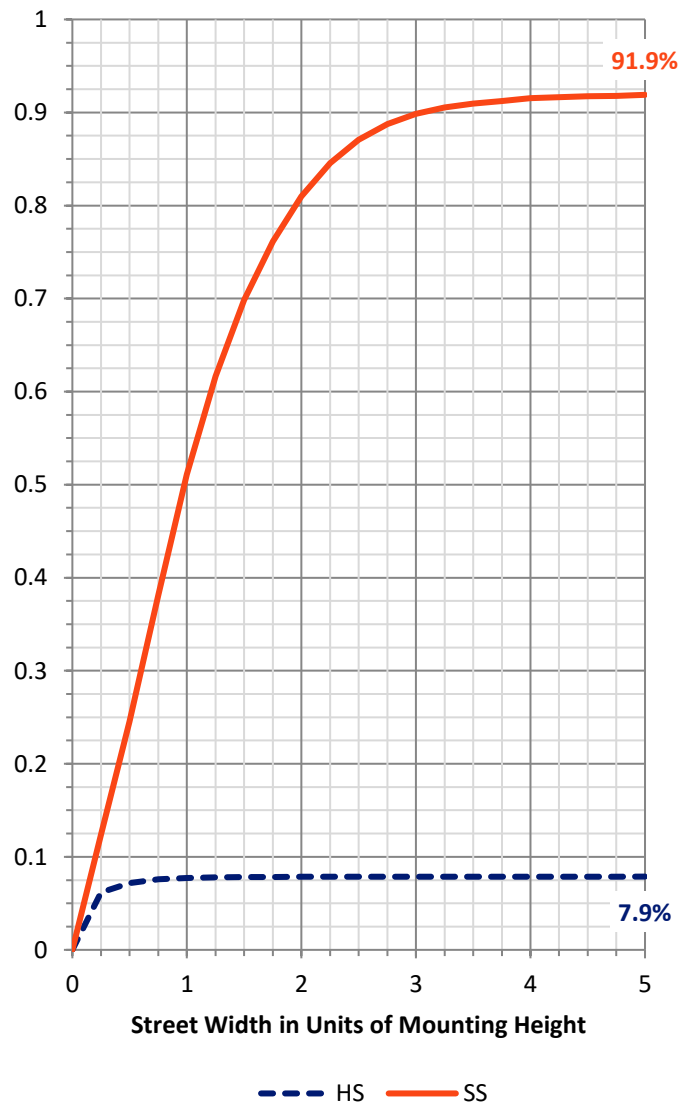
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2050.2	0.0	2050.2
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	23844.8	0.0	23844.8
	% Fixture	92.1	0.0	92.1
Total	Lumens	25895.0	0.0	25895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.8	1.6
10°-20°	961.3	3.7
20°-30°	1544.8	6.0
30°-40°	2624.7	10.1
40°-50°	4073.9	15.7
50°-60°	5477.2	21.2
60°-70°	6700.4	25.9
70°-80°	3917.6	15.1
80°-90°	169.3	0.7
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°	25895.0	100.0
0°-180°	25895.0	100.0

Coefficient of Utilization



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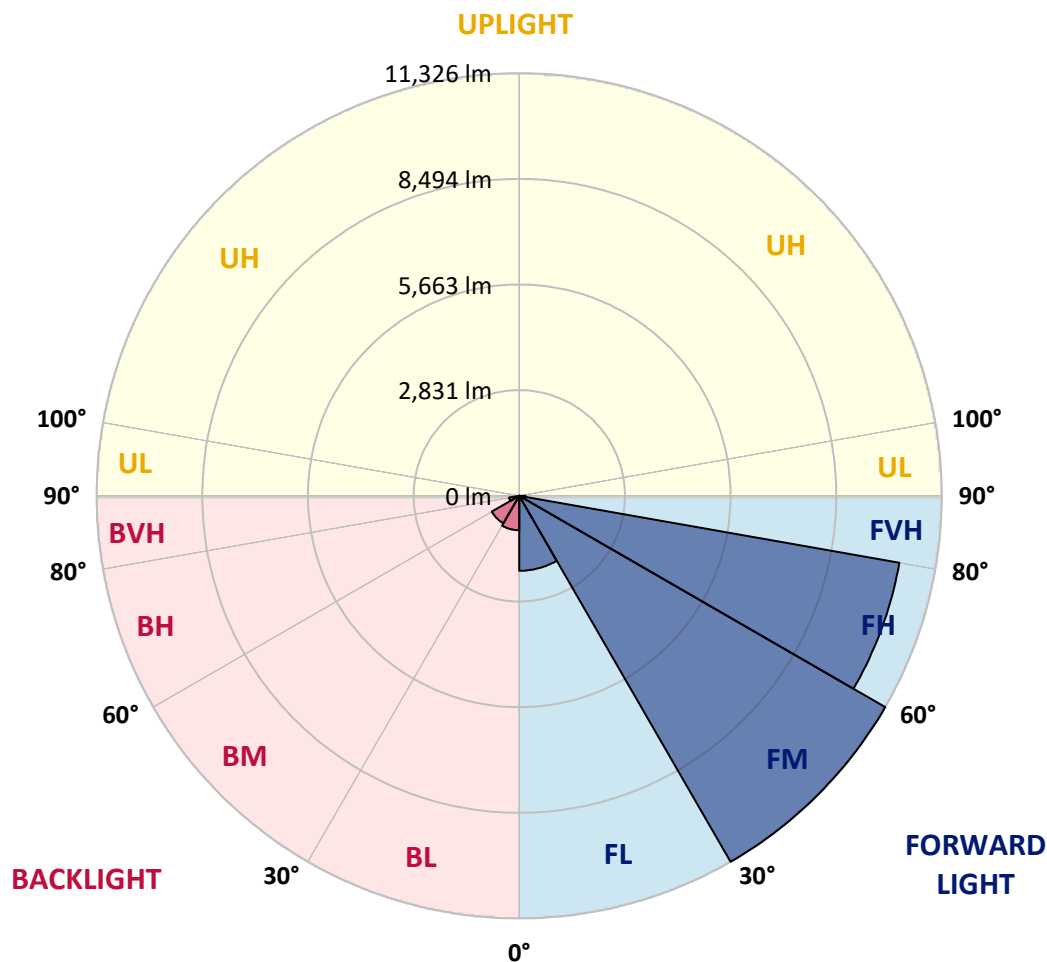
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2009.1	7.8			
FM	(30°-60°)	11325.7	43.7			
FH	(60°-80°)	10343.3	39.9			G4/12000
FVH	(80°-90°)	166.7	0.6			G2/225
BL	(0°-30°)	922.8	3.6	B2/1000		
BM	(30°-60°)	850.0	3.3	B1/1000		
BH	(60°-80°)	274.7	1.1	B1/500		G1/500
BVH	(80°-90°)	2.7	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9
2.5°	4847.4	4853.3	4874.2	4883.5	4905.6	4942.8	4961.4	4962.5	4992.8	5004.4	5013.7
5°	4504.4	4539.3	4574.2	4611.4	4678.8	4768.4	4856.7	4864.9	4962.5	5034.6	5073.0
7.5°	4209.1	4240.5	4282.4	4341.6	4437.0	4577.7	4725.4	4742.8	4927.7	5091.6	5177.7
10°	3905.6	3931.2	3991.7	4078.9	4210.3	4398.6	4597.5	4626.5	4896.3	5168.4	5319.5
12.5°	3581.2	3596.3	3669.6	3795.2	3988.2	4227.7	4489.3	4527.7	4876.5	5256.7	5486.9
15°	3334.7	3341.7	3411.5	3541.7	3762.6	4074.2	4405.6	4452.1	4881.2	5362.5	5669.5
17.5°	3271.9	3275.4	3312.6	3402.2	3597.5	3937.0	4339.3	4396.3	4895.1	5466.0	5853.2
20°	3526.6	3502.2	3463.8	3449.8	3533.5	3854.5	4299.8	4363.7	4913.7	5557.9	6018.3
22.5°	4225.4	4153.3	3994.0	3781.2	3652.1	3860.3	4310.3	4374.2	4973.0	5670.7	6209.0
25°	5262.5	5162.5	4891.6	4473.0	4070.7	4027.7	4397.5	4462.6	5088.1	5805.5	6391.6
27.5°	6442.7	6343.9	6012.5	5414.9	4728.8	4359.1	4597.5	4657.9	5259.0	5925.3	6531.1
30°	7572.9	7545.0	7154.3	6475.3	5556.7	4896.3	4855.6	4906.7	5385.8	5997.4	6641.5
32.5°	8531.0	8486.8	8172.9	7512.4	6504.3	5541.6	5159.1	5174.2	5481.1	6090.4	6785.7
35°	9419.3	9364.7	9089.1	8464.7	7476.4	6329.9	5626.5	5604.4	5689.3	6277.6	6995.0
37.5°	10194.9	10244.9	9939.1	9344.9	8348.4	7149.7	6256.7	6190.4	6014.8	6582.2	7298.5
40°	10843.7	10843.7	10684.4	10189.0	9290.2	7997.3	6969.4	6882.2	6504.3	7052.0	7683.3
42.5°	11077.4	11127.4	11186.7	10906.4	10133.2	8878.6	7763.6	7672.9	7193.8	7718.2	8169.4
45°	11091.3	11170.4	11473.9	11472.7	10894.8	9754.2	8658.9	8615.9	8077.5	8574.0	8771.7
47.5°	10894.8	10993.7	11493.6	11777.3	11498.3	10569.3	9637.9	9584.4	9115.8	9622.8	9401.9
50°	10591.3	10700.6	11282.0	11897.1	11908.7	11278.5	10669.2	10589.0	10258.8	10821.6	10053.0
52.5°	10048.3	10260.0	11092.5	11925.0	12178.5	11891.3	11650.6	11615.7	11537.8	11976.2	10571.6
55°	8886.8	9121.7	10616.9	11934.3	12428.5	12434.3	12570.3	12579.6	12736.6	13055.2	10957.6
57.5°	8338.0	8470.5	9786.7	11978.5	12799.4	13050.5	13507.5	13579.6	13822.6	14079.5	11398.3
60°	7992.6	8149.6	9377.5	11918.0	13381.9	13858.6	14376.0	14400.5	14660.9	15136.5	11994.8
62.5°	7717.1	7871.7	9119.3	11685.5	14036.5	14830.7	15224.8	15227.2	15422.5	16395.7	12672.6
65°	7036.9	7167.1	8597.3	11423.9	14469.1	15792.3	16210.8	16195.7	16355.0	17723.6	13459.8
67.5°	6053.2	6153.2	7531.0	10432.1	14306.3	16666.6	17699.1	17649.1	17456.1	18871.2	13769.1
70°	4680.0	4716.1	5935.8	8693.8	12780.8	17002.7	19137.4	19111.9	18131.7	18665.4	12635.4
71°	3868.4	3987.0	5231.1	7672.9	11758.7	16692.2	19277.0	19292.1	17961.9	18104.9	11855.2
72.5°	2246.4	2347.6	3791.7	5892.7	9983.2	15396.9	18553.8	18663.0	17168.9	16467.8	10126.3
75°	481.4	515.1	1405.7	2852.2	5491.6	10791.3	14644.6	15034.2	13993.5	11202.9	6103.2
77.5°	334.9	361.6	602.3	1294.1	1815.0	5332.3	9097.2	9536.7	8360.1	4210.3	1953.4
80°	265.1	295.3	469.7	639.5	490.7	1719.7	4261.4	4530.0	2788.2	939.5	329.1
82.5°	147.7	175.6	366.3	345.3	188.4	326.7	1193.0	1348.8	558.1	189.5	77.9
85°	43.0	52.3	236.0	251.2	80.2	62.8	203.5	252.3	105.8	50.0	34.9
87.5°	0.0	0.0	113.9	96.5	23.3	9.3	18.6	20.9	20.9	20.9	23.3
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°	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9	4993.9
2.5°	5013.7	5021.8	4992.8	4954.4	4913.7	4863.7	4811.4	4770.7	4769.5	4749.8	4730.0
5°	5075.3	5070.7	4990.5	4868.4	4724.2	4574.2	4431.2	4269.6	4216.1	4149.8	4127.7
7.5°	5189.3	5156.7	4987.0	4719.5	4403.3	4089.3	3764.9	3438.2	3298.7	3173.1	3151.0
10°	5332.3	5270.7	4964.9	4496.3	3916.1	3337.0	2847.5	2403.4	2208.0	2058.0	2051.1
12.5°	5481.1	5386.9	4903.3	4159.1	3277.7	2463.8	1899.9	1462.7	1299.9	1195.3	1204.6
15°	5636.9	5496.2	4770.7	3704.5	2551.0	1672.0	1167.4	910.4	845.3	818.6	825.5
17.5°	5796.2	5571.8	4585.8	3156.8	1833.6	1079.0	808.1	736.0	736.0	741.8	744.1
20°	5934.6	5612.5	4313.7	2542.9	1243.0	786.0	706.9	696.5	702.3	711.6	712.8
22.5°	6071.8	5614.8	3959.1	1920.8	869.7	688.3	673.2	668.6	672.1	682.5	683.7
25°	6183.4	5586.9	3514.9	1366.2	694.2	648.8	641.8	639.5	641.8	654.6	654.6
27.5°	6228.8	5485.8	2973.1	960.4	622.1	604.6	602.3	604.6	608.1	617.4	618.6
30°	6233.4	5309.0	2382.4	695.3	563.9	545.3	550.0	558.1	554.6	552.3	554.6
32.5°	6245.0	5104.4	1806.9	572.1	515.1	486.0	480.2	480.2	466.3	458.1	453.5
35°	6283.4	4863.7	1310.4	513.9	465.1	431.4	409.3	383.7	357.0	343.0	339.5
37.5°	6343.9	4611.4	938.3	475.6	420.9	382.5	340.7	295.3	257.0	246.5	246.5
40°	6454.3	4351.0	694.2	445.3	386.0	338.4	275.6	216.3	181.4	175.6	175.6
42.5°	6628.7	4076.5	553.5	418.6	355.8	293.0	210.5	157.0	131.4	127.9	126.7
45°	6810.1	3774.2	483.7	393.0	323.2	240.7	155.8	116.3	101.2	97.7	97.7
47.5°	6991.5	3452.2	450.0	368.6	291.8	187.2	116.3	91.9	84.9	84.9	86.0
50°	7145.0	3116.1	425.6	341.8	251.2	141.9	91.9	77.9	75.6	80.2	81.4
52.5°	7183.4	2785.9	395.3	308.1	201.2	108.1	75.6	68.6	68.6	68.6	68.6
55°	7160.1	2530.1	355.8	266.3	148.8	86.0	65.1	60.5	59.3	59.3	59.3
57.5°	7239.2	2379.0	284.9	207.0	107.0	69.8	57.0	53.5	51.2	50.0	50.0
60°	7398.5	2280.1	203.5	148.8	80.2	58.1	48.8	45.3	41.9	39.5	39.5
62.5°	7610.1	2194.1	151.2	110.5	61.6	46.5	40.7	37.2	32.6	30.2	30.2
65°	7772.9	2040.6	115.1	82.6	46.5	37.2	31.4	30.2	23.3	20.9	19.8
67.5°	7524.1	1703.4	93.0	60.5	34.9	29.1	24.4	23.3	14.0	11.6	11.6
70°	6453.2	1186.0	74.4	44.2	25.6	23.3	19.8	15.1	10.5	9.3	9.3
71°	5852.0	990.6	67.4	37.2	22.1	22.1	18.6	12.8	9.3	8.1	8.1
72.5°	4861.4	703.5	57.0	29.1	19.8	23.3	19.8	11.6	9.3	8.1	7.0
75°	2822.0	294.2	39.5	19.8	15.1	27.9	25.6	10.5	7.0	5.8	5.8
77.5°	848.8	108.1	22.1	12.8	11.6	24.4	29.1	9.3	3.5	1.2	1.2
80°	154.6	46.5	14.0	8.1	8.1	15.1	22.1	4.7	0.0	0.0	0.0
82.5°	54.6	23.3	8.1	4.7	3.5	7.0	10.5	0.0	0.0	0.0	0.0
85°	31.4	16.3	4.7	2.3	0.0	1.2	2.3	0.0	0.0	0.0	0.0
87.5°	20.9	4.7	0.0	0.0	0.0	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)